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The Ohio State University Bulletin

VOLUME XXIII

DECEMBER, 1918

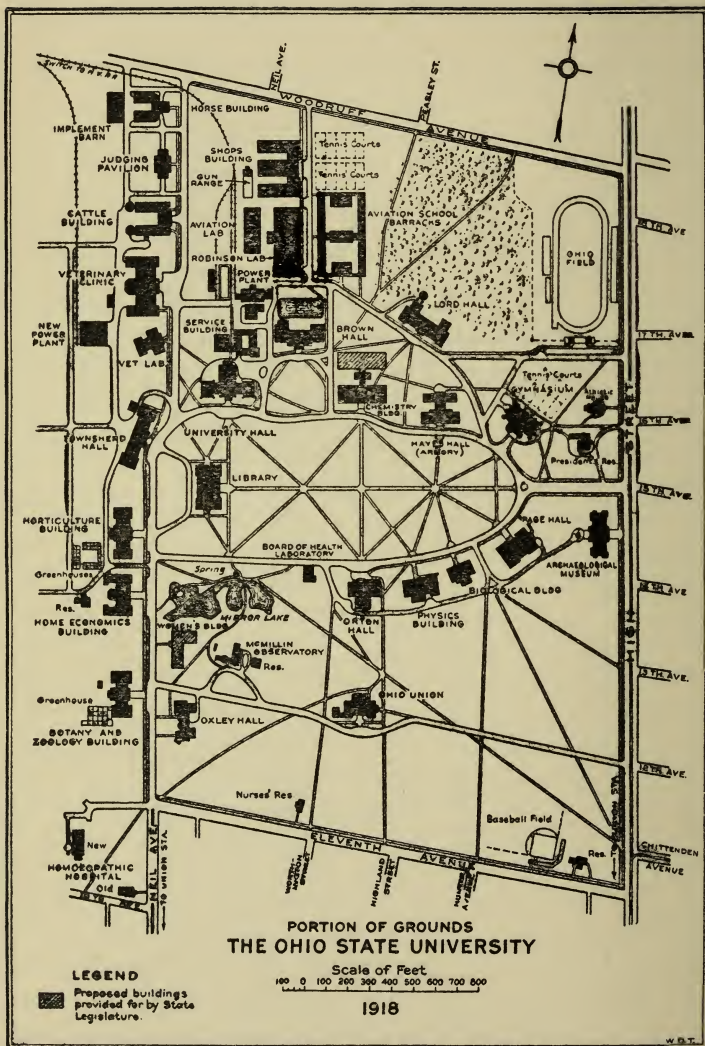
NUMBER 7

COLLEGE OF DENTISTRY

1919-1920

PUBLISHED BY THE UNIVERSITY AT COLUMBUS

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UNIVERSITY CALENDAR

1919

Summer Session, Monday, June 23 to Friday, August 15.

Entrance examinations, Tuesday to Saturday, June 24 to 28, 8 A. M.

Entrance examinations, Tuesday to Saturday, September 9 to 13, 8 A. M.

Registration Day—First Semester—Tuesday, September 16.

President's Annual Address, Wednesday, September 17, 11 A. M.

Latest date for registration of candidates for a degree at the Commencement of June, 1920, October 1.

Registration Day, Short Courses in Agriculture—First Term—Tuesday, October 14.

Mid-semester reports to the Deans concerning delinquent students, Wednesday, November 19.

Thanksgiving recess begins November 26, 1 P. M., and ends December 2, 8 A. M.

Christmas recess begins Friday, December 19, 6 P. M.

1920

Christmas recess ends Tuesday, January 6, 8 A. M.

Registration Day, Short Courses in Agriculture—Second Term—Tuesday, January 6.

Final examinations, Wednesday, January 21 to Thursday, January 29.

Farmers' Week, Monday, January 26 to Friday, January 30.

First semester ends Thursday, January 29, 6 P. M.

Registration Day—Second Semester—Tuesday, February 3.

University Day, Saturday, February 21.

Close of Second Term, Short Courses in Agriculture, Friday, March 12.

Mid-semester reports to the Deans, Saturday, March 21.

Easter recess, Thursday noon, April 1 to Tuesday, April 6, 8 A. M.

Competitive Drill—Cadet Regiment—Saturday, May 29.

Memorial Day, Sunday, May 30.

Final examinations, Wednesday, June 3 to Thursday, June 10.

Commencement, Tuesday, June 15.

Summer Session, Monday, June 21 to Friday, August 13.

Entrance examinations, Tuesday, June 22 to Saturday, June 26, 8 A. M.

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COLLEGE OF DENTISTRY

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COLLEGE OF DENTISTRY

FACULTY

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THOMAS E. FRENCH, M.E.....1458 Worthington St.
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Professor of Bacteriology

*WILLIAM MCPHERSON, M.Sc., D.Sc., Ph.D...198 Sixteenth Ave.
Professor of Chemistry

†WILLIAM L. EVANS, B.Sc., M.Sc., Ph.D....81 S. Champion Ave.
Professor of Chemistry

HARVEY V. COTTRELL, D.D.S.....Hartman Building
Professor of Prosthetic Dentistry

ERNEST SCOTT, B.Sc., M.D.....710 N. Park St.
Professor of Pathology

CLYDE BROOKS, Ph.D., M.D.....1869 N. Fourth St.
*Professor of Physiology, Physiological Chemistry
and Pharmacology*

RAYMOND C. OSBURN, Ph.D.....337 W. Ninth Ave.
Professor of Zoology and Entomology

*Absent on leave 1918-1919.

†Absent on leave first semester 1918-1919.

- CLAYTON MCPEEK, B.A., M.D.....715 N. High St.
Assistant Professor of Physiology
- EDWARD C. BUCK, M.D.....710 N. Park St.
Assistant Professor of Anatomy
- ROLAND B. WILTBERGER, D.D.S., Citizens Bldg., Gay and High Sts.
Assistant Professor of Crown, Bridge and Porcelain
- CLYDE H. HEBBLE, D.D.S.....830 S. High St.
Assistant Professor of Operative Dentistry
- WILLIAM C. GRAHAM, D.D.S.....350 E. State St.
Assistant Professor of Dental Medicine
- †JAMES H. WARREN, B.A., M.D.....324 E. Twentieth Ave.
Assistant Professor of Anatomy
- ROBERT MEIKLEJOHN, M.E.....419 W. Ninth Ave.
Assistant Professor of Engineering Drawing
- EDWIN L. BECK, B.A.....2651 Summit Street
Assistant Professor of English
- OWEN E. WILLIAMS.....2094 Tuller St.
Assistant Professor of Engineering Drawing
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Assistant Professor of Chemistry
- HOMER B. ADKINS, Ph.D.....66 Chittenden Ave.
Instructor in Chemistry
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Instructor in Oral Surgery
- HUGH J. MEANS, B.A., M.D.....322 E. State St.
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Instructor in Prosthetic Laboratory
- CHARLES W. STROSNIDER, D.D.S., Citizens Bldg., Gay & High Sts.
Instructor in Operative Clinic and Assistant in Dental Anatomy

*Absent on leave 1918-1919.

†Absent on leave first semester 1918-1919.

- DICK P. SNYDER, D.D.S.....677 N. High St.
Instructor in Exodontia
- CARLOS I. REED, B.A.....710 N. Park St.
Instructor in Physiology
- EDWARD W. MARTINDALE, B.A., D.D.S...The Ruggery, E. Gay St.
Instructor in Dental Anesthesia
- IRWIN A. BOTTENHORN, D.D.S., M.D.....15 W. Goodale St.
Instructor in Pathology
- *FRANK C. STARR, D.D.S.....185 E. State St.
Instructor in Crown and Bridge Work and Metallurgy
- CHARLES G. DISHONG, M.A.....75 West Tenth Ave.
Instructor in English
- VERA MCCOY MASTERS, B.Sc., M.A.....45 E. Norwich Ave.
Instructor in Bacteriology
- ROLLO C. BAKER, B.A., M.A.....2460 N. High St.
Instructor in Anatomy
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Superintendent of Dental Laboratories and Summer Clinic
- *LOUIS E. REIF, D.D.S.....967 S. High St.
Demonstrator in Operative Clinic
- EARL G. JONES, D.D.S.....Hartman Building
Assistant in Orthodontia
- WEBSTER BAKER.....127 Hubbard Ave.
Student Assistant in Prosthesis

*Absent on leave 1918-1919.

THE OHIO STATE UNIVERSITY

The Ohio State University is maintained by appropriations from the State and Federal Governments. It is located in the northern part of the city of Columbus, and is reached by North High Street or Neil Avenue electric cars.

ORGANIZATION

For convenience of administration, the departments of the University are grouped into organizations called colleges. The Ohio State University comprises eleven colleges and a graduate school, each under the administration of a Dean and College Faculty, as follows:

Graduate School	College of Education
College of Agriculture	College of Engineering
College of Arts, Philosophy and Science	College of Homoeopathic Medicine
College of Commerce and Journalism	College of Law
College of Dentistry	College of Medicine
	College of Pharmacy
	College of Veterinary Medicine

SUMMER SESSION

In addition to the above, there is a Summer Session under the supervision of a Director and governing committee for the administration of the regular University Courses offered in the summer.

This bulletin is devoted exclusively to the work of the College of Dentistry for the academic year, 1919-1920.

For Bulletins of the College of Dentistry, or any information in regard to entrance, address L. E. Wolfe, Secretary of the Entrance Board, Ohio State University, Columbus, Ohio. For information concerning the College, address Dr. Harry M. Semans, Dean, College of Dentistry, North Park Street, Columbus, Ohio.

(Note.—The University publishes a bulletin descriptive of each college. Copies may be obtained by addressing L. E. Wolfe, Secretary of the Entrance Board, Ohio State University, Columbus, Ohio, and stating the college in which the writer is interested.)

COLLEGE OF DENTISTRY

LOCATION

The College of Dentistry is located on Park Street near Buttrick Avenue, four blocks north of the Union Station.

SPECIAL INFORMATION

The diplomas of the Dental College are recognized by all State Boards of Dental Examiners.

The course of study in the College of Dentistry has been advanced from three to four years. This enables the student to obtain the advantages of such subjects as biology, technical drawing, English, and advanced work in chemistry, and to devote more time in the Dental Technical Laboratories and in practice in the Operative Clinic.

Chemistry, English, technical drawing, zoology, comparative anatomy, and bacteriology, will be taken in their respective departments on the University Campus. All other subjects will be taken at the Dental College Building, 710 North Park Street.

IMPORTANT NOTICE

On or before January 1, 1921, satisfactory evidence must be presented that the applicant for entrance shall have completed at least one year of instruction in an approved college of liberal arts and science, after the completion of an approved four year high school course based upon eight years of elementary preparation. The year of college instruction must be at least 15 week hours, including English 3, Physics 3, Biology 3, Chemistry 3.

LABORATORIES AND CLINICAL FACILITIES AT THE PARK STREET BUILDING

To persons who are familiar with the teaching faculty of the College of Dentistry it is well known that the science branches have been taught for several years by specialists—men who devote all their time to teaching and work in their special subjects. A number of the laboratories, such as anatomy, physiology, bacteriology and chemistry, are in charge of teachers who give all their time to the college. The other laboratories are presided over by teachers who are experts in their special lines of work.

The laboratories are located in the Park Street Building.

ANATOMICAL LABORATORY

The anatomical laboratory includes two large rooms with a floor space of more than 3,500 square feet. It is equipped with modern tables, appliances for dissection and anatomical specimens, such as cross sections, skeletons and prepared organs. There are also ample facilities for the preparation and preservation of anatomical material.

PATHOLOGICAL AND HISTOLOGICAL LABORATORIES

These occupy a large, well-lighted room with tables, lockers and other necessary equipment for microscopical work. The pathologic specimens are obtained from the hospital clinics and from postmortems. There are adjacent rooms for preparing and storing specimens, private offices for the teaching staff, and working library and a recitation room in which is installed a modern projectoscope.

ADVANCED BACTERIOLOGICAL LABORATORY

This laboratory is located in a spacious, well-lighted room equipped with tables, lockers and other apparatus necessary for teaching. There are three smaller rooms for the preparation of cultures and for animals.

Facilities are provided for conducting technical laboratory examinations such as the Wasserman, Widal and other tests.

SPECIAL CHEMICAL LABORATORY

This laboratory is located on the first floor and is equipped with tables, lockers and scientific apparatus. Electric fans are used to carry off gases formed in demonstration work.

PHYSIOLOGICAL LABORATORY

This laboratory occupies a whole floor of the main laboratory building. It is equipped with all the necessary appliances for individual work and for class demonstrations. There are thirty-two tables provided with lockers and complete sets of apparatus.

X-RAY LABORATORIES

A large laboratory has been installed on the first floor of the college building, easily accessible to the hospital and dispensaries. It is equipped with the most up-to-date apparatus for diagnosis of mouth lesions and bone diseases and for electrotherapeutic treatment. Apparatus is provided for exhibition of negatives in clinical conferences.

A small laboratory has been installed in a room immediately adjacent to the dental clinic to be used especially for technical and clinical training.

DENTAL LABORATORIES

Throughout the entire course of study the student devotes to practical dentistry three or more hours each day in either laboratories or clinics.

In these laboratories instruction is given relative to the construction of artificial dentures, crown and bridge work, operative and orthodontia technics. In the clinic ample opportunity is afforded for the application of the principles taught in the laboratories.

The college is provided with modern equipment throughout and the rooms are exceptionally well lighted, the buildings having been constructed with special reference to this effect, so essential for dental work.

OPERATIVE CLINIC

The dental operating rooms are commodious, designed exclusively for the purpose, containing 3,600 square feet of floor space, 180 feet of window frontage, providing the necessary

conveniences for patients, and equipped with modern dental chairs and appliances.

The operative clinical department is divided into three well equipped rooms for practical work. The operating room is equipped with forty-four modern operating chairs; the prosthetic room with ten chairs and the extracting room with two chairs. These three rooms are equipped with all modern appliances which will tend to render the dental operation aseptic.

The close connection of the college with the several hospitals and the medical dispensaries, offers opportunities to dental students for witnessing operations for cleft-palate, hare-lip, syphilitic lesions, and other deformities, by the regular staff, and also to do practical dental clinical work.

Special attention is called to the hygienic condition of the college and surroundings; good ventilation, pure air and an abundance of daylight in every room.

Students are required to be neat in their personal appearance and to wear white washable gowns while on duty in the operating room.

Students must promptly fulfill appointments made with patients in the Dental Clinic.

The practice of dentistry by students during the term, outside the college building, is positively prohibited by the State law.

LIBRARY FACILITIES

The college maintains a reading room where the leading dental magazines may be found on file. Other dental literature in departmental libraries will also be at the student's disposal.

Literature of general or special interest can be obtained at the Ohio State University Library.

FEES AND EXPENSES

GENERAL CHARGES

All University dues must be paid at the opening of each semester as a condition of admission to classes. Registration is not complete until the fees have been paid. Students are cautioned against trying to register without the necessary money for fees and required deposits. No student has any privileges in the classes or laboratories until all fees and deposits are paid.

The tuition fees are as follows:

First Year

Tuition.....\$50.00 each semester

Laboratory Deposit. Students are required to pay for all materials consumed in laboratory work. To meet the cost of these materials a deposit ranging from two to ten dollars for each course requiring such supplies is made at the Bursar's office before the student can enter the laboratory. All laboratory supplies are sold at the Laboratory Supply Store, Chemistry Hall, to students at cost to the University, and charged against the deposits. Any unused part of the deposits is refunded at the end of the semester.

Students should present their class cards to the Bursar when they pay laboratory deposits.

Instructors shall not permit students to engage in laboratory work unless first shown a receipt from the Bursar for deposits paid.

Second, Third and Fourth Years

Tuition.....\$50.00 each semester

Laboratory deposit (not returnable) 25.00 each semester

Total.....\$75.00 each semester

There is also a diploma fee of \$5.00 for all fourth year students.

The Ohio Union. A fee of one dollar a semester is paid by all male students at registration. This entitles the student to all privileges of the Union consistent with the Constitution and House Rules governing it.

Return of Fees. Fees are not returnable except in case of sickness and causes entirely beyond the control of the student. No portion of the fees shall be returned for voluntary with-

drawal of the student or enforced withdrawal thirty days after registration. Students withdrawing under discipline forfeit all rights to the return of any portion of the fees. In no case shall more than one-half the fee be refunded.

Breakage and Incidental Charges. Waste of material or destruction of apparatus in the laboratories or the destruction of college property in general, will be charged against the individual student, section or class.

Locker Fees. The gymnasium is free to all students, but those desiring to use a locker are charged a fee of two dollars a semester, which includes the rental of towels.

Expense of Books, Tools and Instruments. Students are required to provide themselves with necessary text-books, operating instruments and laboratory tools before entering upon their several duties. The minimum cost of these is about \$30.00 for books, and \$75.00 for tools in the Freshman year; \$25.00 for books and \$175.00 for instruments in the Sophomore year, including dental engine. Books in the Junior year cost \$20.00.

Attention is called to the rule that all instruments found on the required list must bear the brand of accredited manufacturers. Instruments otherwise purchased cannot be accepted.

The required list of instruments used in all courses is revised every year and the same will be given to each student at the college office.

Materials that are used in the dental technic course are bought by the student.

The latest editions of text-books on all subjects taught in the different departments can be purchased at the college. This is for the convenience of the students. Do not purchase text-books until the teachers have been consulted.

Rooms and Board. Good rooms and board vary in cost with the location and environments. Comfortable living can be had for \$4.00 to \$5.00 a week. A list of boarding houses, within easy access of the college, at which good board and room can be secured at reasonable prices, may be obtained at the office.

Estimate of Expenses. In order to furnish more specific information, we have listed below an estimate of the average payments required by the University for the second year of the

College of Dentistry and have estimated the cost for room and boarding at a safe price. These two items are sometimes reduced slightly where two students occupy the same room and where boarding clubs are economically managed.

Tuition fee.....	\$100 00
Ohio Union	2 00
Laboratory deposit (not returnable).....	50 00
Books	30 00
Tools	175 00
Board (36 weeks at \$3.50 per week).....	126 00
Room rent, at \$8.00 per month.....	72 00
General expenses	100 00
Total.....	\$655 00

The item of general expenses in the above estimate is always subject to the personal habits of the individual, and varies according to the degree of economy exercised.

Opportunities for Self-Help. There are in the city many opportunities to obtain work by which the student may add to his resources. During the summer many students secure remunerative employment in the city.

Student Assistantships. A limited number of student assistantships in the several laboratories are available for men who have had laboratory training and who have enough advanced credits to give them time to do the work required. These positions will be assigned only to men who give evidence of good training in the subject in which the assistantship lies and who can present convincing recommendations from former instructors. The compensation will depend upon the amount of time which the assistant is able to give. These assistants are not relieved from payment of tuition and other fees.

COMBINATION COURSES

Combination Courses of Science-Dentistry and Arts-Dentistry are open to students of accredited colleges and universities. Each college must determine, however, the time of residence required before matriculating in the College of Dentistry and the required residence in the Dental College before granting the academic degree.

ADMISSION

The College is open on equal terms to both sexes.

THE ENTRANCE BOARD

Admission of students into the College of Dentistry is in charge of the University Entrance Board which determines the credits that shall be issued on all entrance certificates and furnishes all desired information to applicants. Correspondence relative to admission should be addressed to the Entrance Board, the Ohio State University, Columbus, Ohio.

REQUIREMENTS FOR ADMISSION

An applicant for admission to the College of Dentistry and for the degree of Doctor of Dental Surgery must be a graduate of a high school of the first grade, a normal school or an accredited preparatory school and receive credit for fifteen entrance units.

For admission by certificate see the Bulletin of General Information.

ADVANCED STANDING AND OTHER INFORMATION

CREDIT FOR WORK DONE IN OTHER DENTAL COLLEGES

Students from acceptable dental colleges may be admitted to advanced standing under the following rules:

1. They must present satisfactory evidence that they have met the entrance requirements of this college.

2. They must present credentials from the proper officers of the dental college attended, showing they were registered dental students and in residence for the time for which credit is sought, and that they have paid all financial obligations.

3. They must present official credentials of having completed a course of the same scope and extent as the course for which they seek credit. These credentials must be accompanied by a certificate from the Dean or Corresponding Officer, supporting the facts under seal of the college.

COLLEGE OF DENTISTRY

CURRICULUM

FIRST YEAR

FIRST SEMESTER			SECOND SEMESTER		
Chemistry	(105 or 109)	4	Chemistry	(106 or 110)	4
Elementary or General Chemistry			Elementary or General Chemistry and Qualitative Analysis		
Engineering Drawing	(101)	2	Anatomy	(102)	3
Elementary Mechanical Drawing			Comparative Anatomy		
English	(101)	2	English	(104)	2
Prosthesis	(101)	4	Operative Dentistry	(145)	3
Prosthetic Dentistry			Dental Anatomy Technic		
Zoology	(101)	3	Prosthesis	(102)	5
			Prosthetic Dentistry		

SECOND YEAR

Anatomy	(125)	4	Anatomy	(126)	4
Human Anatomy			Human Anatomy		
Anatomy	(139)	3	Anatomy	(131)	2
Histology			Applied Anatomy		
Chemistry	(150)	5	Anatomy	(140)	2
Organic Chemistry			Histology		
Operative Dentistry	(109)	2	Anatomy	(154)	1
Operative Technic			Dental Embryology		
Prosthesis	(132)	1	Operative Dentistry	(110)	2
Dental Metallurgy			Operative Technic		
Prosthesis	(103)	1	Bacteriology	(150)	4
Prosthetic Dentistry			Dental Bacteriology		
English	(105)	2	Physiology	(134)	2
Descriptive and Narrative Writing			Bio-Chemistry		
Prosthesis	(105)	1	Prosthesis	(104)	2
Crown and Bridge Technic			Prosthetic Dentistry		
			Prosthesis	(106)	1
			Crown and Bridge Technic		

THIRD YEAR

FIRST SEMESTER			SECOND SEMESTER		
Operative Dentistry	(131)	1	Operative Dentistry	(132)	2
Dental Medicine			Dental Medicine		
Operative Dentistry	(135)	3	Operative Dentistry	(118)	2
Oral Hygiene			Orthodontia Principles and		
Operative Dentistry	(125)	3	Technic		
Operative Principles and Prac-			Operative Dentistry	(124)	1
tice, and Exodontia			Porcelain Technic		
Pathology	(135)	3	Operative Dentistry	(126)	3
General Pathology			Operative Principles and Prac-		
Physiology	(127)	3	tice, and X-Ray		
Prosthesis	(107)	3	Pathology	(144)	2
Crown and Bridge Work			Dental Pathology		
Prosthesis	(117)	2	Physiology	(128)	3
Prosthetic Dentistry Practice			Prosthesis	(112)	3
			Crown and Bridge Principles,		
			Technic and Practice		
			Prosthesis	(118)	2
			Prosthetic Dentistry Practice		

FOURTH YEAR

Operative Dentistry	(139)	2	Operative Dentistry	(140)	2
Anesthetics			Anesthetics		
Operative Dentistry	(141)	1	Operative Dentistry	(142)	1
Ethics, Economics, History and			Ethics, Economics, History and		
Jurisprudence			Jurisprudence		
Operative Dentistry	(133)	2	Operative Dentistry	(134)	2
Dental Medicine			Dental Medicine		
Operative Dentistry	(137)	2	Operative Dentistry	(138)	2
Oral Surgery			Oral Surgery		
Operative Dentistry	(121)	2	Operative Dentistry	(122)	1
Orthodontia Principles and			Orthodontia Practice		
Practice			Operative Dentistry	(128)	6
Operative Dentistry	(127)	5	Operative Dentistry Practice		
Operative Principles and Practice			Prosthesis	(116)	2
Prosthesis	(115)	2	Crown and Bridge Practice		
Crown and Bridge Practice			Prosthesis	(120)	2
Prosthesis	(119)	2	Prosthetic Dentistry Practice		
Prosthetic Dentistry Practice					

REQUIREMENTS FOR GRADUATION

At the close of the senior year, a student who has completed the curriculum of this college will receive the degree of Doctor of Dental Surgery, on the following conditions:

1. He must be twenty-one years of age, and of good moral character, which includes good conduct in college.

2. He must have obtained satisfactory standing in all the branches of the curriculum.

3. He must have attended four full years, the last of which is taken in this college.

Graduates in dentistry of other institutions are required to attend one full year and comply with all the regulations of the Senior year in order to receive the degree of Doctor of Dental Surgery from this college.

4. He must have attended at least 85 per cent of the scheduled appointments.

5. He must have discharged all his financial obligations to this college, and to any other dental college which he may have attended.

6. He must be present at the time and place scheduled by the Dean for final examinations, and his absence from an examination in a given subject will indicate failure in that subject, and will be entered as such against him.

7. If he fails to graduate he may, at the discretion of the Executive Committee, repeat the next session and shall take such subjects as the Dean may direct.

ATTENDANCE

In any course the minimum of attendance for which credit is allowed is 85 per cent of the scheduled hours. The margin of 15 per cent is allowed to provide against serious illness or other unavoidable absence, and must never be approached except under such circumstances. Regular attendance upon all scheduled work is required, and the Executive Committee is authorized to place on probation or recommend for dismissal any student who vio-

lates this rule without good cause. Absences just preceding or following vacations are subject to especially rigid investigation.

The diplomas of the Dental College are recognized by all State Boards of Dental Examiners.

CONDITIONS AND FAILURES

A student who has attended less than 85 per cent of the hours scheduled for any subject is not eligible for examinations and shall receive no credit.

A grade of 60 percent and less than 75 percent in any subject means a condition. A grade below 60 percent means a failure and the subject must be repeated in class.

Value of grades: P (pass) 75-85; A (average) 85-90; G (good) 90-95; M (merit) 95-100.

A condition in Anatomy can be removed only in the Anatomical Laboratory and the student must pay \$6.50 for each dissection required.

A condition in a laboratory subject can be removed only by an oral or written examination and a practical test in the laboratory, for which the student must pay the cost of material.

When a student fails in an examination to remove a condition, he must repeat the subject in class.

When a student fails after repeating a course he shall have no further privilege of instruction or examination in this college except by special vote of the Executive Committee.

HOURS OF INSTRUCTION

SUBJECT	FIRST SEMESTER					SECOND SEMESTER					GRAND TOTAL HOURS			
	Course No.	Didc. Hours	Lab. Hours	Total Hours	Credit Hours	Course No.	Didc. Hours	Lab. Hours	Total Hours	Credit Hours	Didc. Hours	Lab. Hours	Total Hours	Credit Hours
Anatomy														
Applied Anatomy.....	.....	.....	.....	.....	.....	131	32	.....	32	2	16	48	64	2
Comparative Anatomy.....	.....	.....	.....	.....	.....	102	16	80	96	3	16	80	96	3
Histology.....	139	32	48	80	3	140	16	32	48	2	48	80	128	5
Human Anatomy.....	125	32	96	128	4	126	32	96	128	4	64	192	256	8
Dental Embryology.....	.....	.....	.....	.....	.....	142	.....	48	48	1	.....	48	48	1
Bacteriology														
Dental Bacteriology.....	.....	.....	.....	.....	.....	150	32	96	128	4	32	96	128	4
Chemistry														
El. Chem. & Qual. Analysis....	105	32	96	128	4	106	32	96	128	4	64	192	256	8
Organic Chemistry.....	150	32	48	80	5	.....	.....	.....	.....	.....	32	48	80	5
Engineering Drawing														
.....	101	.....	64	64	2	.....	.....	.....	.....	.....	.....	64	64	2
English														
.....	101	32	.....	32	2	104	32	.....	32	2	64	.....	64	4
Operative Dentistry														
Anesthetics.....	139	16	48	64	2	140	16	48	64	2	32	96	128	4
Dental Anatomy and Technic..	.....	.....	.....	.....	.....	145	16	96	112	3	16	96	112	3
Dental Medicine.....	131	16	.....	16	1	132	16	48	64	2	32	48	80	3
Dental Medicine.....	133	16	48	64	2	134	16	48	64	2	32	96	128	4
Ethics, Economics, History and Jurisprudence.....	141	16	.....	16	1	142	16	.....	16	1	32	.....	32	2
Operative Dentistry Practice..	.....	.....	.....	.....	.....	128	.....	256	256	6	.....	256	256	6
Operative Principles & Practice	127	16	192	208	5	.....	.....	.....	.....	.....	16	192	208	5
Operative Principles and Practice, Exodontia.....	125	16	96	112	3	.....	.....	.....	.....	.....	16	96	112	3

SUBJECT	FIRST SEMESTER					SECOND SEMESTER					GRAND TOTAL HOURS				
	Course No.	Didc. Hours	Lab. Hours	Total Hours	Credit Hours	Course No.	Didc. Hours	Lab. Hours	Total Hours	Credit Hours	Didc. Hours	Lab. Hours	Total Hours	Credit Hours	
Operative Principles and Practice, and X-Ray.	..	..	..	..	..	126	16	96	112	3	16	96	112	3	
	109	16	48	48	2	110	..	96	96	2	16	144	160	4	
	135	16	96	112	3	..	..	..	..	..	16	96	112	3	
	137	16	48	64	2	138	16	48	64	2	32	96	128	4	
	..	..	..	..	..	122	..	48	48	1	..	48	48	1	
	121	16	48	64	2	..	..	..	..	..	16	48	64	2	
	..	..	..	..	..	118	16	48	64	2	16	48	64	2	
	..	..	..	..	..	124	..	48	48	1	..	48	48	1	
	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Pathology	..	..	..	..	..	144	16	48	64	2	16	48	64	2	
Dental Pathology	..	..	..	..	3	..	..	..	..	..	16	96	112	3	
General Pathology	135	16	96	112	3	..	..	..	..	..	..	..	..	..	
Physiology	..	..	..	..	..	132	16	48	64	2	16	48	64	2	
Bio-Chemistry	..	..	..	..	..	128	32	48	80	3	64	96	160	6	
Physiology	127	32	48	80	3	..	..	..	..	..	..	..	..	..	
Prosthesis	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Crown and Bridge	105	..	48	48	1	106	..	48	48	1	..	96	96	2	
Crown and Bridge	107	16	96	112	3	112	16	96	112	3	32	192	224	6	
Crown and Bridge	115	..	96	96	2	116	..	96	96	2	..	192	192	4	
Dental Metallurgy	132	..	48	48	1	..	..	..	..	..	..	48	48	1	
Prosthetic Dentistry	101	16	144	160	4	102	16	192	208	5	32	336	368	9	
Prosthetic Dentistry	103	16	32	48	1	104	16	96	112	2	32	128	160	3	
Prosthetic Dentistry	117	..	96	96	2	118	..	96	96	2	..	192	192	4	
Prosthetic Dentistry	119	..	96	96	2	120	..	96	96	2	..	192	192	4	
Prosthetic Dentistry	101	32	32	64	3	..	..	..	..	..	32	32	64	3	
Zoology	..	..	..	..	..	..	..	..	..	..	..	..	..	..	

HOURS OF INSTRUCTION

Operative and clinical dentistry.....	1456
Prosthetic technic.....	464
Crown and bridge technic.....	320
Operative technic (including 48 hours porcelain inlay)....	208
Oral hygiene.....	112
Dental anatomy.....	112
Orthodontia	128
Oral surgery.....	128
Biology (zoology, comparative anatomy, and dental embryology)	208
Chemistry (inorganic, organic, physiological and metallurgy)	448
Technical drawing.....	64
Anatomy	320
Histology	128
Pathology (general and dental).....	176
Materia medica.....	64
Bacteriology	128
Physiology	160
Dental rhetoric (English).....	96
Physical diagnosis, anesthesia.....	64
Radiology	64
Jurisprudence, dental history, ethics, economics.....	32
Total.....	4880

DEPARTMENTS OF INSTRUCTION**Anatomy**

- Applied Anatomy
- Comparative Anatomy
- Histology and Embryology
- Human Anatomy

Bacteriology

- Dental Bacteriology

Chemistry

- Inorganic Chemistry
- Organic Chemistry

Engineering Drawing

- Mechanical Drawing

English

- English

Operative Dentistry

- Anesthetics
- Dental Anatomy and Technic
- Dental Medicine
- Ethics, Economics, History and Jurisprudence
- Operative Dentistry
- Operative Principles and Practice, Exodontia and X-Ray
- Operative Technic
- Oral Hygiene
- Oral Surgery
- Orthodontia Principles and Practice
- Orthodontia Principles and Technic
- Porcelain Technic

Pathology

- Pathology, General and Dental

Physiology

- Bio-Chemistry
- Physiology

Prosthesis

- Crown and Bridge Work
- Dental Metallurgy
- Prosthetic Dentistry

Zoology

- Elementary Zoology

DEPARTMENTS OF INSTRUCTION

ANATOMY

Office, 105 Biological Hall

PROFESSOR LANDACRE, ASSISTANT PROFESSORS BUCK AND WARREN, MR. BAKER, AND ASSISTANTS

102. Comparative Anatomy. Three credit hours. Second semester. One recitation, and five laboratory hours each week. First year, Dentistry. Dr. Landacre.

With special bearing on comparative dental anatomy.

125. Human Anatomy. Four credit hours. First semester. Two recitations or lectures and six laboratory hours each week. Second year, Dentistry. Dr. Buck and laboratory assistants.

Osteology, arthrology, syndesmology and myology, exclusive of the lower portions of the body.

126. Human Anatomy. Four credit hours. Second semester. Two recitations or lectures and six laboratory hours each week. Second year, Dentistry. Dr. Buck and laboratory assistants.

Myology, angiology, splanchnology and peripheral nervous system, exclusive of the lower portions of the body.

131. Applied Anatomy. Two credit hours. Second semester. Two recitations or lectures each week. Second year, Dentistry. Dr. Buck.

A review of Anatomy 125 with special reference to the application of anatomy to dental surgery, in addition to the anatomy of the central nervous system.

139. Histology. Three credit hours. First semester. Two recitations or lectures and three laboratory hours each week. Second year, Dentistry. Dr. Warren and laboratory assistants.

The histology of the tissues, the histology of the organs, with special emphasis laid upon the head and neck regions.

140. Histology. Two credit hours. Second semester. One recitation or lecture, and two laboratory hours each week. Second year, Dentistry. Dr. Warren and laboratory assistants.

The histology of the tissues, the histology of the organs, with special emphasis laid upon the head and neck regions.

154. Dental Embryology. One credit hour. Second semester. Three laboratory hours each week. Second year, Dentistry. Prerequisite, Anatomy 139. Dr. Warren.

Special emphasis laid upon the embryology of teeth and organs of the head and neck.

BACTERIOLOGY

Office, 202 Veterinary Laboratory

PROFESSOR MORREY AND DEPARTMENT ASSISTANTS

150. Dental Bacteriology. Four credit hours. Second semester. Two lectures or recitations and six laboratory hours each week. Second year, Dentistry. Dr. Morrey, Mrs. Masters.

Disinfection and sterilization; the preparation of culture media and a thorough study of the pathogenic bacteria of the oral cavity.

CHEMISTRY

Office, 100 Chemistry Building

PROFESSORS McPHERSON AND EVANS, ASSISTANT PROFESSOR DAY, MR. ADKINS, AND DEPARTMENT ASSISTANTS

105. Elementary Chemistry. Four credit hours. First semester. One lecture, one quiz, and six laboratory hours each week. First year, Dentistry. Required of all students who have not presented chemistry as an entrance unit. Mr. Day, Mr. Adkins.

A general course on the chemistry of metals.

106. Elementary Chemistry and Qualitative Analysis. A continuation of Chemistry 105. Four credit hours. Second semester. First year, Dentistry. Mr. Day, Mr. Adkins.

A general course on the chemistry of metals. The laboratory work is a general introductory course in qualitative analysis.

109. General Chemistry. Four credit hours. First semester. One lecture, one quiz, and six laboratory hours each week. First year, Dentistry. Required of all students who have presented chemistry as an entrance unit.

A general course on the chemistry of non-metals. It is more advanced than Chemistry 105.

110. General Chemistry and Qualitative Analysis. A continuation of Chemistry 109. Four credit hours. Second semester. First year, Dentistry.

A general course on the chemistry of metals. The laboratory work is a general introductory course in qualitative analysis.

150. Organic Chemistry. Five credit hours. First semester. Second year, Dentistry. Prerequisite, an acceptable course in general chemistry. Mr. Adkins.

Lectures and laboratory work. A general introductory course in organic chemistry, and a study of alcohols, ethers, alkaloids, etc.

ENGINEERING DRAWING

Office, 204 Brown Hall

PROFESSOR FRENCH, ASSISTANT PROFESSORS MEIKLEJOHN AND WILLIAMS, AND DEPARTMENT ASSISTANTS

101. Elementary Mechanical Drawing. Two credit hours. First semester. Four laboratory hours each week. First year, Dentistry. Mr. French, Mr. Meiklejohn, Mr. Williams and department assistants.

Practice in the use of drawing instruments, elementary projections.

ENGLISH

Office, 103 Physics Building

PROFESSOR DENNEY, ASSISTANT PROFESSOR BECK, MR. DISHONG, AND DEPARTMENT ASSISTANTS

101. Paragraph Writing: Description and Narration. Two credit hours. First semester. First year, Dentistry. Mr. Dishong.

English 101 will be repeated in the second semester for the benefit of students who fail. The class meets on Saturday at 9 a. m.

English 101 is given also in the Summer Session.

104. Paragraph Writing: Exposition and Argumentation. Two credit hours. Second semester. First year, Dentistry. Prerequisite, English 101. Same hours as English 101. Mr. Dishong.

English 104 is given also in the Summer Session.

105. Descriptive and Narrative Writing. Two credit hours. First semester. Second year, Dentistry. Prerequisite, English 101 and 104. Mr. Beck.

OPERATIVE DENTISTRY

Office, 710 North Park Street

PROFESSORS SEMANS AND COTTRELL, ASSISTANT PROFESSORS GRAHAM, HEBBLE, AND WILTBERGER, DR. J. W. MEANS, DR. MARTINDALE, DR. STROSNIDER, DR. BOTTENHORN, DR. MOBBERLY, DR. SNYDER, DR. STARR, DR. JONES, DR. REIF

109-110. Operative Technic. Two credit hours. The year. One lecture and three laboratory hours each week, the first semester; six laboratory hours each week the second semester. Second year, Dentistry. Dr. Hebble.

The preparation and filling of root canals of extracted teeth, shaping cavities in models in natural size tooth forms, and filling the same with each kind of filling material. Table and operating clinic demonstrations.

118. Orthodontia Principles and Technic. Two credit hours. Second semester. One recitation and three laboratory hours each week. Third year, Dentistry. Dr. Jones.

Free hand soldering, soldering and adjusting combination appliances and making accurate models. Work illustrated by stereopticon charts, models and clinical demonstration.

121. Orthodontia Principles and Practice. Two credit hours. First semester. One recitation and three clinical hours each week. Fourth year, Dentistry. Dr. Jones.

The etiology and classification of malocclusion, physiology of tooth movement, character of tissues involved, methods and appliances for the correction of malposed teeth and correction in relation to harmony of the facial lines.

122. Orthodontia Practice. One credit hour. Second semester. Three clinical hours each week. Fourth year, Dentistry. Dr. Jones.

124. Porcelain Technic. One credit hour. Second semester. A total of eight lectures or recitations and forty laboratory hours. Third year, Dentistry. Dr. Wiltberger.

A study of the composition and grades of porcelain and the methods of using it in all phases of dentistry.

125. Operative Principles and Practice, and Exodontia. Three credit hours. First semester. One recitation and six laboratory and clinical hours each week. Third year, Dentistry. Dr. Semans, Dr. Hebble, Dr. Strosnider, Dr. Snyder, Dr. Reif.

The study of all methods, appliances and materials used in filling teeth; and the study of the proper technic in the extraction of teeth.

126. Operative Principles and Practice, and X-Ray. Three credit hours. Second semester. One recitation and six clinical hours each week. Third year, Dentistry. Dr. Semans, Dr. Hebble, Dr. Strosnider, Dr. Snyder, Dr. Reif.

The study of the conservation of the natural tooth with practical demonstration and tests by use of the X-ray.

127. Operative Principles and Practice. Five credit hours. First semester. One recitation and twelve clinical hours each week. Fourth year, Dentistry. Dr. Semans, Dr. Hebble, Dr. Strosnider, Dr. Snyder, Dr. Mobberly, Dr. Reif.

The study of all modern and advanced methods of restoration of the natural tooth, with careful clinical supervision of each student's work on patients.

128. Operative Dentistry Practice. Six credit hours. Second semester. Sixteen clinical hours each week. Fourth year, Dentistry. Dr. Semans, Dr. Hebble, Dr. Strosnider, Dr. Snyder, Dr. Mobberly, Dr. Reif.

Self assurance in the care and management of patients is thoroughly taught in this course.

131. Dental Medicine. One credit hour. First semester. One recitation each week. Third year, Dentistry. Dr. Graham. A study of medicinal agents used in dentistry.

132. Dental Medicine. Two credit hours. Second semester. One recitation and three clinical hours each week. Third year, Dentistry. Dr. Graham and clinical instructors.

A continuation of Operative Dentistry 131 with clinical demonstrations.

133-134. Dental Medicine. Two credit hours. The year. One recitation and three clinical hours each week. Fourth year, Dentistry. Dr. Graham and clinical instructors.

A more advanced course, and continuous with Operative Dentistry 132.

135. Oral Hygiene. Three credit hours. First semester. One recitation and six clinical hours each week. Third year, Dentistry. Dr. Graham and clinical instructors.

Hygiene of the mouth and teeth. A study of the relation of bacteria to caries of teeth and diseases of the mouth; the practical use of disinfectants, antiseptics and germicides; instrument sterilization and general prophylaxis.

137-138. Oral Surgery. Two credit hours. The year. One recitation and three clinical hours each week. Fourth year, Dentistry. Dr. Means.

The pathologic condition of the face, jaws, oral cavity and related structures, with clinical demonstrations.

139-140. Anesthetics. Two credit hours. The year. One recitation and three clinical hours each week. Fourth year, Dentistry. Dr. Martindale, Dr. Snyder.

A study of the use, administration and dangers of anesthetics as used for all purposes in dentistry.

141-142. Ethics, Economics, History and Jurisprudence. One credit hour. The year. One lecture or quiz each week. Fourth year, Dentistry. Dr. Semans.

Business training, ideals, dental history and standards of professional conduct are taught in this course.

145. **Dental Anatomy Technic.** Three credit hours. Second semester. One recitation and six laboratory hours each week. First year, Dentistry. Dr. Semans, Dr. Strosnider.

Descriptive human dental anatomy, sketching and sectioning of natural teeth; and natural teeth reproduced by molding and carving in various materials.

PATHOLOGY

Office, 710 North Park Street

PROFESSOR SCOTT, DR. BOTTENHORN AND ASSISTANTS

135. **General Pathology.** Three credit hours. First semester. One lecture or recitation and six laboratory hours each week. Third year, Dentistry. Dr. Scott, Dr. Bottenhorn.

General pathology, including the etiology of diseases, distribution of nutrition, inflammation and tumors.

144. **Dental Pathology.** Two credit hours. Second semester. One recitation and three clinical hours each week. Third year, Dentistry. Dr. Bottenhorn.

The study of all pathological manifestations in and about the teeth, with clinical demonstrations; use of the X-ray as a diagnostic medium.

PHYSIOLOGY, PHYSIOLOGICAL CHEMISTRY AND PHARMACOLOGY

Office, 104 Biological Hall

PROFESSOR BROOKS, ASSISTANT PROFESSOR McPEEK,
MR. REED, AND ASSISTANTS

127. **Physiology.** Three credit hours. First semester. Two lectures or recitations and three laboratory hours each week. Third year, Dentistry. Dr. McPeck.

The physiology of the unicellular structures, muscle and nerve, central nervous system, autonomic system, internal and external senses, blood and heart. Reports of papers by students.

128. **Physiology.** Three credit hours. Second semester. Two lectures or recitations and three laboratory hours each week. Third year, Dentistry. Prerequisite, Physiology 127. Dr. McPeck.

The physiology of the circulatory and respiratory mechanisms, digestion, excretion, metabolism, endocrinous glands and reproduction.

134. Bio-Chemistry. Two credit hours. Second semester. One recitation and three laboratory hours each week. Second year, Dentistry. Dr. Brooks, Dr. McPeck.

A study of carbohydrates, fats and proteins in their relation to the cell, including a study of digestion, metabolism, animal fluids, enzyme, secretions and excretions, in their normal conditions, with reference to pathologic variations.

PROSTHESIS

Office, 710 North Park Street

PROFESSOR COTTRELL, ASSISTANT PROFESSOR WILTBERGER,
DR. SHUMWAY, DR. MOBBERLY, DR. STARR

101. Prosthetic Dentistry. Four credit hours. First semester. One lecture or recitation and nine laboratory hours each week. First year, Dentistry. Dr. Cottrell, Dr. Shumway.

The foundation principles in restoration of lost teeth by means of plates. Laboratory work correlates with didactic.

102. Prosthetic Dentistry. Five credit hours. Second semester. One lecture or recitation and twelve laboratory hours each week. First year, Dentistry. Prerequisite, Prosthesis 101. Dr. Cottrell, Dr. Shumway.

A continuation of Prosthesis 101.

103. Prosthetic Dentistry. One credit hour. First semester. One recitation or three laboratory hours each week. Second year, Dentistry. Dr. Cottrell, Dr. Shumway.

This work aims to develop an artistic sense in students that they may be thoroughly prepared to restore not only lost organs but lost features, and to rebuild symbols of individuality and character. Clinical demonstrations.

104. Prosthetic Dentistry. Two credit hours. Second semester. One recitation and three laboratory hours each week. Second year, Dentistry. Dr. Cottrell, Dr. Shumway.

105-106. Crown and Bridge Technic. One credit hour. The year. Three laboratory hours each week. Second year, Dentistry. Dr. Wiltberger, Dr. Mobberly.

107. Crown and Bridge Work. Three credit hours. First semester. One lecture or recitation and six laboratory hours each week. Third year, Dentistry. Dr. Wiltberger, Dr. Starr.

Instruction in the foundation principles of lost parts. Clinical demonstrations.

112. Crown and Bridge Principles, Technic and Practice. Three credit hours. Second semester. One recitation and six laboratory and clinical hours each week. Third year, Dentistry. Dr. Wiltberger, Dr. Starr, and clinical instructors.

A continuation of Prosthesis 107. Clinical demonstrations and practice.

115-116. Crown and Bridge Practice. Two credit hours. The year. Six clinical hours each week. Fourth year, Dentistry. Dr. Wiltberger, Dr. Starr, and clinical instructors.

All methods of restoring lost parts by crowns and bridges. Work done by the students in the clinic.

117-118. Prosthetic Dentistry Practice. Two credit hours. The year. Six laboratory and clinical hours each week. Third year, Dentistry. Dr. Cottrell, Dr. Mobberly, Dr. Shumway.

A continuation of Prosthesis 104, with simple cases in practical work in the clinic.

119-120. Prosthetic Dentistry Practice. Two credit hours. The year. Six clinical hours each week. Fourth year, Dentistry. Dr. Cottrell, Dr. Mobberly, Dr. Shumway.

A continuation of Prosthesis 118, with all modern methods of restoration of lost parts. Practical work in the clinic.

132. Dental Metallurgy. One credit hour. First semester. Three laboratory hours each week. Second year, Dentistry. Dr. Starr, Mr. Baker.

Process of extracting and refining metals and their ores, making alloys for plate, solder, crown and bridge work, and the making and tempering of instruments.

ZOOLOGY

Office, 101 Botany and Zoology Building

PROFESSOR OSBURN AND DEPARTMENT ASSISTANTS

101. Elementary Zoology. Three credit hours. First semester. Two lectures or recitations and two laboratory hours each week. First year, Dentistry. Mr. Kostir.

The Ohio State University Bulletin is issued at least twenty times during the year; monthly in June, July, August, and September, and bi-weekly in October, November, December, January, February, March, April, and May.

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April 1920

The Ohio State University Bulletin

VOLUME XXIV

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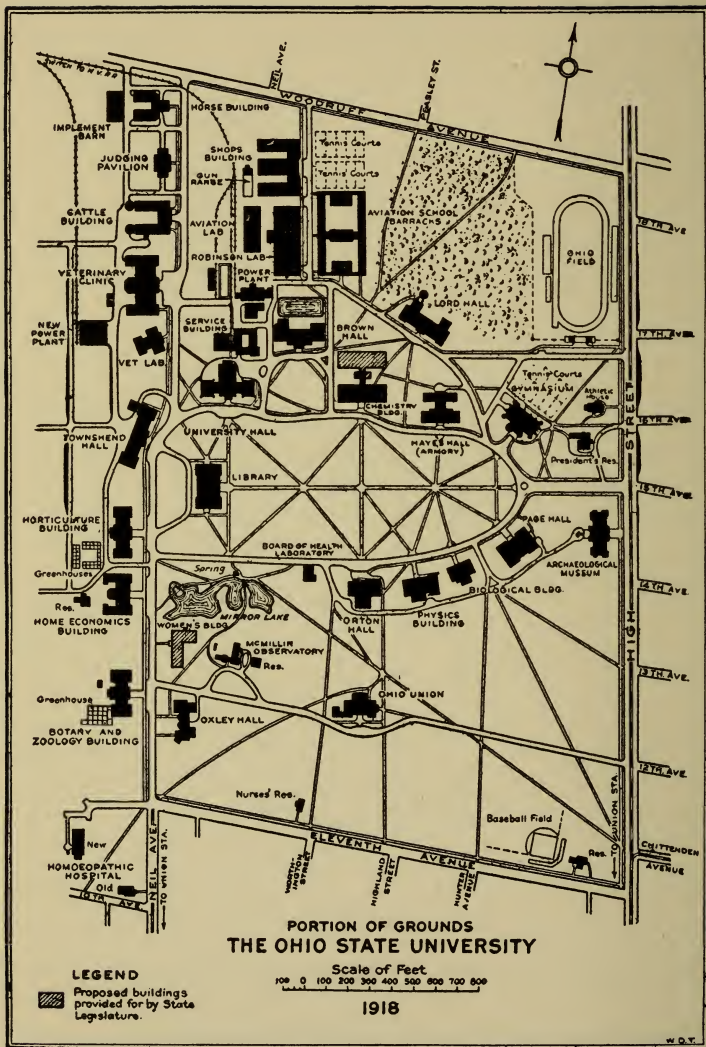
COLLEGE OF DENTISTRY

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UNIVERSITY OF ILLINOIS

1920-1921

PUBLISHED BY THE UNIVERSITY AT COLUMBUS

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UNIVERSITY CALENDAR

1920

Summer Session, Monday, June 21 to Friday, August 13.

Entrance examinations, Tuesday to Saturday, 8 A. M., June 22 to 26.

Entrance examinations, Tuesday to Saturday, 8 A. M., September 7 to 11.

Registration Day—First Semester—Tuesday, September 14.

President's Annual Address, Wednesday, September 15, 11 A.M.

Latest date for registration of candidates for a degree at the Commencement in June, 1921, October 1.

Registration Day, Short Courses in Agriculture—First Term—Tuesday, October 19.

Mid-semester reports to the Deans concerning delinquent students, Wednesday, November 10.

Thanksgiving recess begins November 24, 1 P. M., and ends November 30, 8 A. M.

Christmas recess begins Friday, December 17, 6 P. M.

1921

Christmas recess ends Tuesday, January 4, 8 A. M.

Registration Day, Short Courses in Agriculture—Second Term—Tuesday, January 4.

Final examinations, Wednesday, January 26, to Thursday, February 3.

Farmers' Week, Monday, January 31 to Friday, February 4.

First semester ends Thursday, February 3, 6 P. M.

SECOND SEMESTER

Registration Day—Second Semester—Tuesday, February 8.

University Day, Tuesday, February 22.

Close of Second Term, Short Courses in Agriculture, Friday, March 18.

Easter recess, Thursday noon, March 24 to Tuesday, March 29, 8 A. M.

Mid-semester reports to the Deans, Wednesday, April 13.

Competitive Drill—Cadet Regiment—Saturday, May 28.

Memorial Day, Monday, May 30.

Final examinations, Wednesday, June 1, to Thursday, June 9.

Commencement, Tuesday, June 14.

Summer Session, Monday, June 20 to Friday, August 12.

Entrance examinations, Tuesday, June 21, to Saturday, June 25, 8 A. M.

THE FRANKLIN CO. CHL.

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THE FRANKLIN CO. CHS.

THE JANUARY CO. CHY.

JANUARY.							FEBRUARY.							MARCH.							APRIL.								
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SEPTEMBER.							OCTOBER.							NOVEMBER.							DECEMBER.								
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S		
.....						1							1			1	2	3	4	5							1	2	3
4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12	4	5	6	7	8	9	10	11	
11	12	13	14	15	16	17	9	10	11	12	13	14	15	13	14	15	16	17	18	19	11	12	13	14	15	16	17	18	
18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26	18	19	20	21	22	23	24	25	
25	26	27	28	29	30		23	24	25	26	27	28	29	27	28	29	30				25	26	27	28	29	30	31		
.....							30	31																					

THE OHIO STATE UNIVERSITY

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COLLEGE OF DENTISTRY

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.....	<i>Custodian of Buildings, College of Dentistry</i>
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COLLEGE OF DENTISTRY

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THOMAS E. FRENCH, M.E..... 1778 N. High St.
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WILLIAM MCPHERSON, M.Sc., D.Sc., Ph.D... 198 Sixteenth Ave.
Professor of Chemistry

WILLIAM L. EVANS, B.Sc., M.Sc., Ph.D... 81 S. Champion Ave.
Professor of Chemistry

HARVEY V. COTTRELL, D.D.S..... Hartman Building
Professor of Prosthetic Dentistry

ERNEST SCOTT, B.Sc., M.D..... 710 N. Park St.
Professor of Pathology

CLYDE BROOKS, Ph.D., M.D..... 1869 N. Fourth St.
*Professor of Physiology, Physiological Chemistry
and Pharmacology*

RAYMOND C. OSBURN, Ph.D..... 337 W. Ninth Ave.
Professor of Zoology and Entomology

CLAYTON MCPEEK, B.A., M.D..... 710 N. Park St.
Assistant Professor of Physiology

- EDWARD C. BUCK, M.D.....710 N. Park St.
Assistant Professor of Anatomy
- ROLAND B. WILTBERGER, D.D.S.....Citizens Bank Building
Assistant Professor of Crown, Bridge and Porcelain
- CLYDE H. HEBBLE, D.D.S.....830 S. High St.
Assistant Professor of Operative Dentistry
- WILLIAM C. GRAHAM, D.D.S.....350 E. State St.
Assistant Professor of Dental Medicine
- ROBERT MEIKLEJOHN, M.E.....419 W. Ninth Ave.
Assistant Professor of Engineering Drawing
- EDWIN L. BECK, B.A.....2651 Summit Street
Assistant Professor of English
- OWEN E. WILLIAMS.....2094 Tuller St.
Assistant Professor of Engineering Drawing
- JESSE E. DAY, Ph.D.....1484 Belmont Ave.
Assistant Professor of Chemistry
- JOHN W. MEANS, D.D.S., M.D.....715 N. High St.
Instructor in Oral Surgery
- HUGH J. MEANS, B.A., M.D.....322 E. State St.
Instructor in Roentgenology
- HERBERT S. SHUMWAY, D.D.S.....Hartman Building
Instructor in Prosthetic Laboratory
- CHARLES W. STROSNIDER, D.D.S.....Citizens Bank Building
Instructor in Operative Clinic and Assistant in Dental Anatomy
- DICK P. SNYDER, D.D.S.....137 E. State St.
Instructor in Exodontia
- EDWARD W. MARTINDALE, B.A., D.D.S.....Ruggerly Building
Instructor in Dental Anesthesia
- IRWIN A. BOTTENHORN, D.D.S., M.D.....15 W. Goodale St.
Instructor in Dental Pathology

- FRANK C. STARR, D.D.S.....Hartman Building
Instructor in Crown and Bridge Work and Metallurgy
- VERA MCCOY MASTERS, B.Sc., M.A.....2172 Indianola Ave.
Instructor in Bacteriology
- ROLLO C. BAKER, B.A., M.A.....2460 N. High St.
Instructor in Anatomy
- *WENCEL J. KOSTIR, B.A., M.A.....19 Huston-Fergus Court
Instructor in Zoology and Entomology
- OLLIE O. MOBBERLY, D.D.S.....757½ N. High St.
Superintendent of Dental Laboratories and Summer Clinic
- LOUIS E. REIF, D.D.S.....967 S. High St.
Demonstrator in Operative Clinic
- EARL G. JONES, D.D.S.....185 E. State St.
Instructor in Orthodontia

*Absent on leave, 1919-1920.

THE OHIO STATE UNIVERSITY

The Ohio State University is maintained by appropriations from the State and Federal Governments. It is located in the northern part of the city of Columbus, and is reached by North High Street or Neil Avenue electric cars.

ORGANIZATION

For convenience of administration, the departments of the University are grouped into organizations called colleges. The Ohio State University comprises a graduate school and eleven colleges, each under the administration of a Dean and College Faculty, as follows:

Graduate School	College of Education
College of Agriculture	College of Engineering
College of Arts, Philosophy and Science	College of Homoeopathic Medicine
College of Commerce and Journalism	College of Law
College of Dentistry	College of Medicine
	College of Pharmacy
	College of Veterinary Medicine

SUMMER SESSION

In addition to the above, there is a Summer Session under the supervision of a Director and governing committee for the administration of the regular University Courses offered in the summer.

This bulletin is devoted exclusively to the work of the College of Dentistry for the academic year, 1920-1921.

For Bulletins of the College of Dentistry, or any information in regard to entrance, address the Secretary of the Entrance Board, Ohio State University, Columbus, Ohio. For information concerning the College, address Dr. Harry M. Semans, Dean, College of Dentistry, North Park Street, Columbus, Ohio.

(NOTE—The University publishes a bulletin descriptive of each college. Copies may be obtained by addressing the Secretary of the Entrance Board, Ohio State University, Columbus, Ohio, and stating the college in which the writer is interested.)

COLLEGE OF DENTISTRY

LOCATION

The College of Dentistry is located on Park Street near Buttle Avenue, four blocks north of the Union Station.

SPECIAL INFORMATION

The diplomas of the Dental College are recognized by all State Boards of Dental Examiners.

The course of study in the College of Dentistry has been advanced from three to four years. This enables the student to obtain the advantages of such subjects as biology, technical drawing, English, and advanced work in chemistry, and to devote more time in the Dental Technical Laboratories and in practice in the Operative Clinic.

Chemistry, English, technical drawing, zoology, comparative anatomy, and bacteriology, will be taken in their respective departments on the University Campus. All other subjects will be taken at the Dental College Building, 710 North Park Street.

IMPORTANT NOTICE

Beginning with the academic year 1921-1922, satisfactory evidence must be presented that the applicant for entrance has completed at least one year of instruction in an approved college of liberal arts and science, thirty semester hours, after the completion of an approved four year high school course based upon eight years of elementary preparation. The year of college instruction must include English 6 hours, Biology 6 hours, and Chemistry 6 hours.

Physics must be presented for admission. This may be taken either in the high school or in an arts college.

LABORATORIES AND CLINICAL FACILITIES AT THE PARK STREET BUILDING

To persons who are familiar with the teaching faculty of the College of Dentistry it is well known that the science branches have been taught for several years by specialists—men who devote all their time to teaching and work in their special subjects. A number of the laboratories, such as anatomy, physiology, bacteriology and chemistry, are in charge of teachers who give all their time to the college. The other laboratories are presided over by teachers who are experts in their special lines of work.

The laboratories are located in the Park Street Building.

ANATOMICAL LABORATORY

The anatomical laboratory includes two large rooms with a floor space of more than 3,500 square feet. It is equipped with modern tables, appliances for dissection and anatomical specimens, such as cross sections, skeletons and prepared organs. There are also ample facilities for the preparation and preservation of anatomical material.

PATHOLOGICAL AND HISTOLOGICAL LABORATORIES

These occupy a large, well-lighted room with tables, lockers and other necessary equipment for microscopical work. The pathologic specimens are obtained from the hospital clinics and from postmortems. There are adjacent rooms for preparing and storing specimens, private offices for the teaching staff, and working library and a recitation room in which is installed a modern projectoscope.

ADVANCED BACTERIOLOGICAL LABORATORY

This laboratory is located in a spacious, well-lighted room equipped with tables, lockers and other apparatus necessary for teaching. There are three smaller rooms for the preparation of cultures and for animals.

Facilities are provided for conducting technical laboratory examinations such as the Wasserman, Widal and other tests.

SPECIAL CHEMICAL LABORATORY

This laboratory is located on the first floor and is equipped with tables, lockers and scientific apparatus. Electric fans are used to carry off gases formed in demonstration work.

PHYSIOLOGICAL LABORATORY

This laboratory occupies a whole floor of the main laboratory building. It is equipped with all the necessary appliances for individual work and for class demonstrations. There are thirty-two tables provided with lockers and complete sets of apparatus.

X-RAY LABORATORIES

A large laboratory has been installed on the first floor of the college building, easily accessible to the hospital and dispensaries. It is equipped with the most up-to-date apparatus for diagnosis of mouth lesions and bone diseases and for electrotherapeutic treatment. Apparatus is provided for exhibition of negatives in clinical conferences.

A small laboratory has been installed in a room immediately adjacent to the dental clinic to be used especially for technical and clinical training.

DENTAL LABORATORIES

Throughout the entire course of study the student devotes to practical dentistry three or more hours each day in either laboratories or clinics.

In these laboratories instruction is given relative to the construction of artificial dentures, crown and bridge work, operative and orthodontia technics. In the clinic ample opportunity is afforded for the application of the principles taught in the laboratories.

The college is provided with modern equipment throughout and the rooms are exceptionally well lighted, the buildings having been constructed with special reference to this effect, so essential for dental work.

OPERATIVE CLINIC

The dental operating rooms are commodious, designed exclusively for the purpose, containing 4,600 square feet of floor space, 250 feet of window frontage, providing the necessary

conveniences for patients, and equipped with modern dental chairs and appliances.

The operative clinical department is divided into three well equipped rooms for practical work. The operating room is equipped with forty-four modern operating chairs; the prosthetic room with ten chairs and the extracting room with two chairs. These three rooms are equipped with all modern appliances which will tend to render the dental operation aseptic.

The close connection of the college with the several hospitals and the medical dispensary, offers opportunities to dental students for witnessing operations for cleft-palate, hare-lip, syphilitic lesions, and other deformities, by the regular staff, and also to do practical dental clinical work.

Special attention is called to the hygienic condition of the college and surroundings; good ventilation, pure air and an abundance of daylight in every room.

Students are required to be neat in their personal appearance and to wear white washable gowns while on duty in the operating room.

Students must promptly fulfill appointments made with patients in the Dental Clinic.

The practice of dentistry by students during the term, outside the college building, is positively prohibited by the State law.

LIBRARY FACILITIES

The college maintains a reading room where the leading dental magazines may be found on file. Other dental literature in departmental libraries will also be at the student's disposal.

Literature of general or special interest can be obtained at the Ohio State University Library.

GENERAL INFORMATION

FEES AND EXPENSES

GENERAL CHARGES

All University fees must be paid at the opening of each semester as a condition of admission to classes. Registration is not complete until all fees have been paid. No student will have any privileges in the classes or laboratories until all fees and deposits are paid.

Since all fees are due and payable as a part of the student's registration, no person should come to the University for registration without money sufficient to cover all of his fees and deposits.

Matriculation Fee. Every student upon his first admission to the University is required to pay a matriculation fee of \$10.00. This fee is paid but once, and is in addition to other University fees and entitles the student to the privileges of membership in the University. (Effective June 1, 1920.)

Non-Resident Fee. Every undergraduate student who is not a legal resident of the State of Ohio is required to pay a non-resident fee of \$25.00 each semester of his residence in the University in addition to other University fees. The burden of registering under proper residence is placed upon the student. If there is any possible question of his right to legal residence, the matter should be brought to the attention of the Registrar and passed upon, previous to registration or the payment of fees. Any student who registers improperly under this rule shall be required to pay not only the non-resident fee but shall be assessed a penalty of \$10.00. (Effective June 1, 1920.)

No person shall be considered eligible to register in the University as a resident of the State of Ohio unless he has resided in the State twelve months next preceding the date of his proposed enrollment; and no person shall be considered to have gained a residence in this State for the purpose of registering in the University while he is a student in the University.

The residence of minors shall follow that of the legal guardian.

The residence of wives shall follow that of husbands.

Aliens who have taken out first citizenship papers and who have been residents of Ohio for twelve months next preceding the date of their enrollment in the University, shall be regarded as eligible for registration as residents of Ohio.

The tuition fees are as follows:

First Year

Tuition.....\$50.00 each semester

Laboratory Deposit. Students are required to pay for all materials consumed in laboratory work. To meet the cost of these materials a deposit ranging from two to ten dollars for each course requiring such supplies is made at the Bursar's office before the student can enter the laboratory. All laboratory supplies are sold at the Laboratory Supply Store, Chemistry Hall, to students at cost to the University, and charged against the deposits. Any unused part of the deposits is refunded at the end of the semester.

Students should present their class cards to the Bursar when they pay laboratory deposits.

Instructors shall not permit students to engage in laboratory work unless first shown a receipt from the Bursar for deposits paid.

Second, Third and Fourth Years

The tuition fee is \$150.00, including laboratory deposit.

The student must pay \$75.00 at the beginning of each semester, and will not be enrolled in classes until this payment is paid. No postponement or reduction of fees is made. No notes are accepted under any circumstances.

There is also a diploma fee of \$5.00 for all fourth year students.

The Ohio Union. A fee of one dollar a semester is paid by all male students at registration. This entitles the student to all privileges of the Union consistent with the Constitution and House Rules governing it.

Return of Fees. Fees are not returnable except in case of sickness and causes entirely beyond the control of the student. No portion of the fees shall be returned for voluntary withdrawal of the student or enforced withdrawal thirty days after registration. Students withdrawing under discipline forfeit all rights to the return of any portion of the fees. In no case shall more than one-half the fee be refunded.

Breakage and Incidental Charges. Waste of material or destruction of apparatus in the laboratories or the destruction of

college property in general, will be charged against the individual student, section or class.

Locker Fees. The gymnasium is free to all students, but those desiring to use a locker are charged a fee of two dollars a semester, which includes the rental of towels.

Expense of Books, Tools and Instruments. Students are required to provide themselves with necessary textbooks, operating instruments and laboratory tools before entering upon their several duties. The minimum cost of these is about \$30.00 for books, and \$75.00 for tools in the Freshman year; \$25.00 for books and \$175.00 for instruments in the Sophomore year, including dental engine. Books in the Junior year cost \$20.00.

Attention is called to the rule that all instruments found on the required list must bear the brand of accredited manufacturers. Instruments otherwise purchased cannot be accepted.

The required list of instruments used in all courses is revised every year and the same will be given to each student at the college office.

Materials that are used in the dental technic course are bought by the student.

The latest editions of textbooks on all subjects taught in the different departments can be purchased at the college. This is for the convenience of the students. Do not purchase textbooks until the teachers have been consulted.

Rooms and Board. Good rooms and board vary in cost with the location and environments. Comfortable living can be had for \$6.50 to \$8.00 a week. A list of boarding houses, within easy access of the college, at which good board and room can be secured at reasonable prices, may be obtained at the office.

Estimate of Expenses. In order to furnish information, we have listed below an estimate of the average payments required by the University for the second year of the College of Dentistry and have estimated the cost for room and boarding at a safe price. These two items are sometimes reduced slightly where two students occupy the same room and where boarding clubs are economically managed.

Matriculation fee.....	\$ 10 00
Tuition fee, including laboratory deposit..	150 00
Ohio Union	2 00
Books	30 00
Tools	175 00
Board (36 weeks at \$8.00 per week).....	288 00
Room rent, at \$15.00 per month.....	135 00
General expenses	100 00
Total.....	\$890 00

The item of general expenses in the above estimate is always subject to the personal habits of the individual, and varies according to the degree of economy exercised.

Opportunities for Self-Help. There are in the city many opportunities to obtain work by which the student may add to his resources. During the summer many students secure remunerative employment in the city.

Student Assistantships. A limited number of student assistantships in the several laboratories are available for men who have had laboratory training and who have enough advanced credits to give them time to do the work required. These positions will be assigned only to men who give evidence of good training in the subject in which the assistantship lies and who can present convincing recommendations from former instructors. The compensation will depend upon the amount of time which the assistant is able to give. These assistants are not relieved from payment of tuition and other fees.

COMBINATION COURSES

Combination Courses of Science-Dentistry and Arts-Dentistry are open to students of accredited colleges and universities. Each college must determine, however, the time of residence required before matriculating in the College of Dentistry and the required residence in the Dental College before granting the academic degree.

ADMISSION

The College is open on equal terms to both sexes.

THE ENTRANCE BOARD

Admission of students into the College of Dentistry is in charge of the University Entrance Board which determines the credits that shall be issued on all entrance certificates and furnishes all desired information to applicants. Correspondence relative to admission should be addressed to the Secretary of the Entrance Board, the Ohio State University, Columbus, Ohio.

REQUIREMENTS FOR ADMISSION

An applicant for admission to the College of Dentistry and for the degree of Doctor of Dental Surgery must be a graduate of a high school of the first grade, a normal school or an accredited preparatory school and receive credit for fifteen entrance units. (For 1921-1922 see important notice on page 8.)

For admission by certificate see the Bulletin of General Information.

ADVANCED STANDING AND OTHER INFORMATION

CREDIT FOR WORK DONE IN OTHER DENTAL COLLEGES

Students from colleges holding membership in the American University Dental Faculties Association may be admitted to advanced standing under the following rules:

1. They must present satisfactory evidence that they have met the entrance requirements.
2. They must present credentials from the proper officers of the dental college attended, showing they were registered dental students and in residence for the time for which credit is sought, and that they have paid all financial obligations.
3. They must present official credentials of having completed a course of the same scope and extent as the course for which they seek credit. These credentials must be accompanied by a certificate from the Dean or Corresponding Officer, supporting the facts under seal of the college.

COLLEGE OF DENTISTRY

CURRICULUM

FIRST YEAR

FIRST SEMESTER			SECOND SEMESTER		
Chemistry	(105 or 109)	4	Chemistry	(106 or 110)	4
Elementary or General Chemistry			Elementary or General Chemistry and Qualitative Analysis		
Engineering Drawing	(101)	2	Anatomy	(102)	3
Elementary Mechanical Drawing			Comparative Anatomy		
English	(101)	2	English	(104)	2
Prosthesis	(101)	4	Operative Dentistry	(145)	3
Prosthetic Dentistry			Dental Anatomy Technic		
Zoology	(101)	3	Prosthesis	(102)	5
			Prosthetic Dentistry		

SECOND YEAR

Anatomy	(125)	4	Anatomy	(126)	4
Human Anatomy			Human Anatomy		
Anatomy	(139)	3	Anatomy	(131)	2
Histology			Applied Anatomy		
Chemistry	(150)	5	Anatomy	(140)	2
Organic Chemistry			Histology		
Operative Dentistry	(109)	2	Anatomy	(154)	1
Operative Technic			Dental Embryology		
Prosthesis	(132)	1	Operative Dentistry	(110)	2
Dental Metallurgy			Operative Technic		
Prosthesis	(103)	1	Bacteriology	(150)	4
Prosthetic Dentistry			Dental Bacteriology		
English	(105)	2	Physiology	(134)	2
Descriptive and Narrative Writing			Bio-Chemistry		
Prosthesis	(105)	1	Prosthesis	(104)	2
Crown and Bridge Technic			Prosthetic Dentistry		
			Prosthesis	(106)	1
			Crown and Bridge Technic		

THIRD YEAR

FIRST SEMESTER			SECOND SEMESTER		
Operative Dentistry	(181)	1	Operative Dentistry	(132)	2
Dental Medicine			Dental Medicine		
Operative Dentistry	(135)	3	Operative Dentistry	(118)	2
Oral Hygiene			Orthodontia Principles and		
Operative Dentistry	(125)	3	Technic		
Operative Principles and Prac-			Operative Dentistry	(124)	1
tice, and Exodontia			Porcelain Technic		
Pathology	(185)	3	Operative Dentistry	(126)	3
General Pathology			Operative Principles and Prac-		
Physiology	(127)	3	tice, and X-Ray		
Prosthesis	(107)	3	Pathology	(144)	2
Crown and Bridge Work			Dental Pathology		
Prosthesis	(117)	2	Physiology	(128)	3
Prosthetic Dentistry Practice			Prosthesis	(112)	3
			Crown and Bridge Principles,		
			Technic and Practice		
			Prosthesis	(118)	2
			Prosthetic Dentistry Practice		

FOURTH YEAR

Operative Dentistry	(139)	2	Operative Dentistry	(140)	2
Anesthetics			Anesthetics		
Operative Dentistry	(141)	1	Operative Dentistry	(142)	1
Ethics, Economics, History and			Ethics, Economics, History and		
Jurisprudence			Jurisprudence		
Operative Dentistry	(133)	2	Operative Dentistry	(134)	2
Dental Medicine			Dental Medicine		
Operative Dentistry	(137)	2	Operative Dentistry	(138)	2
Oral Surgery			Oral Surgery		
Operative Dentistry	(121)	2	Operative Dentistry	(122)	1
Orthodontia Principles and			Orthodontia Practice		
Practice			Operative Dentistry	(128)	6
Operative Dentistry	(127)	5	Operative Dentistry Practice		
Operative Principles and Practice			Prosthesis	(116)	2
Prosthesis	(115)	2	Crown and Bridge Practice		
Crown and Bridge Practice			Prosthesis	(120)	2
Prosthesis	(119)	2	Prosthetic Dentistry Practice		
Prosthetic Dentistry Practice					

REQUIREMENTS FOR GRADUATION

At the close of the senior year, a student who has completed the curriculum of this college will receive the degree of Doctor of Dental Surgery, on the following conditions:

1. He must be twenty-one years of age, and of good moral character, which includes good conduct in college.

2. He must have obtained satisfactory standing in all the branches of the curriculum.

3. He must have attended four full years, the last of which is taken in this college.

Graduates in dentistry of other institutions are required to attend one full year and comply with all the regulations of the Senior year in order to receive the degree of Doctor of Dental Surgery from this college.

4. He must have attended at least 85 per cent of the scheduled appointments.

5. He must have discharged all his financial obligations to this college, and to any other dental college which he may have attended.

6. He must be present at the time and place scheduled by the Dean for final examinations, and his absence from an examination in a given subject will indicate failure in that subject, and will be entered as such against him.

7. If he fails to graduate he may, at the discretion of the Executive Committee, repeat the next session and shall take such subjects as the Dean may direct.

ATTENDANCE

In any course the minimum of attendance for which credit is allowed is 85 per cent of the scheduled hours. The margin of 15 per cent is allowed to provide against serious illness or other unavoidable absence, and must never be approached except under such circumstances. Regular attendance upon all scheduled work is required, and the Executive Committee is authorized to place on probation or recommend for dismissal any student who vio-

lates this rule without good cause. Absences just preceding or following vacations are subject to especially rigid investigation.

The diplomas of the Dental College are recognized by all State Boards of Dental Examiners.

CONDITIONS AND FAILURES

A student who has attended less than 85 per cent of the hours scheduled for any subject is not eligible for examination and shall receive no credit.

A grade of 60 percent and less than 75 percent in any subject means a condition. A grade below 60 percent means a failure and the subject must be repeated in class.

Value of grades: P (pass) 75-85; A (average) 85-90; G (good) 90-95; M (merit) 95-100.

A condition in Anatomy can be removed only in the Anatomical Laboratory and the student must pay \$6.50 for each dissection required.

A condition in a laboratory subject can be removed only by an oral or written examination and a practical test in the laboratory, for which the student must pay the cost of material.

When a student fails in an examination to remove a condition, he must repeat the subject in class.

When a student fails after repeating a course he shall have no further privilege of instruction or examination in this college except by special vote of the Executive Committee.

HOURS OF INSTRUCTION

COLLEGE OF DENTISTRY

21

SUBJECT	FIRST SEMESTER					SECOND SEMESTER					GRAND TOTAL HOURS			
	Course No.	Didc. Hours	Lab. Hours	Total Hours	Credit Hours	Course No.	Didc. Hours	Lab. Hours	Total Hours	Credit Hours	Didc. Hours	Lab. Hours	Total Hours	Credit Hours
Anatomy														
Applied Anatomy.....	131	32	48	80	3	131	32	48	80	3	16	48	64	2
Comparative Anatomy.....	139	32	48	80	3	140	16	32	48	2	16	80	96	3
Histology	125	32	96	128	4	126	32	96	128	4	48	80	128	5
Human Anatomy.....						142	48	48	96	1	64	192	256	8
Dental Embryology.....											48	48	96	1
Bacteriology														
Dental Bacteriology.....						150	32	96	128	4	32	96	128	4
Chemistry														
El. Chem. & Qual. Analysis...	105	32	96	128	4	106	32	96	128	4	64	192	256	8
Organic Chemistry.....	150	48	96	144	5						48	96	144	5
Engineering Drawing.....	101		64	64	2							64	64	2
English	101	32		32	2	104	32		32	2	64		64	4
English	105	32		32	2						32		32	2
Operative Dentistry														
Anesthetics	139	16	48	64	2	140	16	48	64	2	32	96	128	4
Dental Anatomy and Technic..						145	16	96	112	3	16	96	112	3
Dental Medicine.....	131	16		16	1	132	16	48	64	2	32	48	80	3
Dental Medicine.....	133	16	48	64	2	134	16	48	64	2	32	96	128	4
Ethics, Economics, History and Jurisprudence	141	16		16	1	142	16		16	1	32		32	2
Operative Dentistry Practice..						128		256	256	6		256	256	6
Operative Principles & Practice	127	16	192	208	5						16	192	208	5
Operative Principles and Practice, Exodontia.....	125	16	96	112	3						16	96	112	3

THE OHIO STATE UNIVERSITY

SUBJECT	FIRST SEMESTER					SECOND SEMESTER					GRAND TOTAL HOURS			
	Course No.	Didc. Hours	Lab. Hours	Total Hours	Credit Hours	Course No.	Didc. Hours	Lab. Hours	Total Hours	Credit Hours	Didc. Hours	Lab. Hours	Total Hours	Credit Hours
Operative Principles and Practice, and X-Ray.....	..	..	..	..	..	126	16	96	112	3	16	96	112	3
Operative Technic.....	109	16	48	48	2	110	..	96	96	2	16	144	160	4
Oral Hygiene.....	135	16	96	112	3	..	..	..	..	..	16	96	112	3
Oral Surgery.....	137	16	48	64	2	138	16	48	64	2	32	96	128	4
Orthodontia Practice.....	..	..	..	..	..	122	..	48	48	1	..	48	48	1
Orthodontia Prin. & Practice..	121	16	48	64	2	..	..	..	..	..	16	48	64	2
Orthodontia Prin. & Technic..	..	..	..	..	..	118	16	48	64	2	16	48	64	2
Porcelain Technic.....	..	..	..	..	..	124	..	48	48	1	..	48	48	1
Pathology														
Dental Pathology.....	..	..	..	..	..	144	16	48	64	2	16	48	64	2
General Pathology.....	135	16	96	112	3	..	..	..	..	..	16	96	112	3
Physiology														
Bio-Chemistry	..	..	..	..	..	132	16	48	64	2	16	48	64	2
Physiology	127	32	48	80	3	128	32	48	80	3	64	96	160	6
Prosthesis														
Crown and Bridge.....	105	..	48	48	1	106	..	48	48	1	..	96	96	2
Crown and Bridge.....	107	16	96	112	3	112	16	96	112	3	32	192	224	6
Crown and Bridge.....	115	..	96	96	2	116	..	96	96	2	..	192	192	4
Dental Metallurgy.....	132	..	48	48	1	..	..	..	..	..	..	48	48	1
Prosthetic Dentistry.....	101	16	144	160	4	102	16	192	208	5	32	336	368	9
Prosthetic Dentistry.....	103	16	32	48	1	104	16	96	112	2	32	128	160	3
Prosthetic Dentistry.....	117	..	96	96	2	118	..	96	96	2	..	192	192	4
Prosthetic Dentistry.....	119	..	96	96	2	120	..	96	96	2	..	192	192	4
Zoology	101	32	32	64	3	..	..	..	..	..	32	32	64	3

HOURS OF INSTRUCTION

Operative and clinical dentistry.....	1456
Prosthetic technic.....	464
Crown and bridge technic.....	320
Operative technic (including 48 hours porcelain inlay)....	208
Oral hygiene.....	112
Dental anatomy.....	112
Orthodontia	128
Oral surgery.....	128
Biology (zoology, comparative anatomy, and dental embryology)	208
Chemistry (inorganic, organic, physiological and metallurgy)	508
Technical drawing.....	64
Anatomy	320
Histology	128
Pathology (general and dental).....	176
Materia medica.....	64
Bacteriology	128
Physiology	160
Dental rhetoric (English).....	96
Physical diagnosis, anesthesia.....	64
Radiology	64
Jurisprudence, dental history, ethics, economics.....	32
Total.....	4940

DEPARTMENTS OF INSTRUCTION

Anatomy

- Applied Anatomy
- Comparative Anatomy
- Histology and Embryology
- Human Anatomy

Bacteriology

- Dental Bacteriology

Chemistry

- Inorganic Chemistry
- Organic Chemistry

Engineering Drawing

- Mechanical Drawing

English

- English

Operative Dentistry

- Anesthetics
- Dental Anatomy and Technic
- Dental Medicine
- Ethics, Economics, History and Jurisprudence
- Operative Dentistry
- Operative Principles and Practice, Exodontia and X-Ray
- Operative Technic
- Oral Hygiene
- Oral Surgery
- Orthodontia Principles and Practice
- Orthodontia Principles and Technic
- Porcelain Technic

Pathology

- Pathology, General and Dental

Physiology

- Bio-Chemistry
- Physiology

Prosthesis

- Crown and Bridge Work
- Dental Metallurgy
- Prosthetic Dentistry

Zoology

- Elementary Zoology

DEPARTMENTS OF INSTRUCTION

ANATOMY

Office, 105 Biological Hall

PROFESSOR LANDACRE, ASSISTANT PROFESSOR BUCK, MR.
KNOUFF, MR. BAKER, AND ASSISTANTS

102. Comparative Anatomy. Three credit hours. Second semester. One recitation, and five laboratory hours each week. First year, Dentistry. Dr. Landacre.

With special bearing on comparative dental anatomy.

125. Human Anatomy. Four credit hours. First semester. Two recitations or lectures and six laboratory hours each week. Second year, Dentistry. Dr. Buck and laboratory assistants.

Osteology, arthrology, syndesmology and myology, exclusive of the lower portions of the body.

126. Human Anatomy. Four credit hours. Second semester. Two recitations or lectures and six laboratory hours each week. Second year, Dentistry. Dr. Buck and laboratory assistants.

Myology, angiology, splanchnology and peripheral nervous system, exclusive of the lower portions of the body.

131. Applied Anatomy. Two credit hours. Second semester. Two recitations or lectures each week. Second year, Dentistry. Dr. Buck.

A review of Anatomy 125 with special reference to the application of anatomy to dental surgery, in addition to the anatomy of the central nervous system.

139. Histology. Three credit hours. First semester. Two recitations or lectures and three laboratory hours each week. Second year, Dentistry.

The histology of the tissues, the histology of the organs, with special emphasis laid upon the head and neck regions.

140. Histology. Two credit hours. Second semester. One recitation or lecture, and two laboratory hours each week. Second year, Dentistry.

The histology of the tissues, the histology of the organs, with special emphasis laid upon the head and neck regions.

154. Dental Embryology. One credit hour. Second semester. Three laboratory hours each week. Second year, Dentistry. Prerequisite, Anatomy 139.

Special emphasis laid upon the embryology of teeth and organs of the head and neck.

BACTERIOLOGY

Office, 202 Veterinary Laboratory

PROFESSOR MORREY AND DEPARTMENT ASSISTANTS

150. Dental Bacteriology. Four credit hours. Second semester. Two lectures or recitations and six laboratory hours each week. Second year, Dentistry. Dr. Morrey, Mrs. Masters.

Disinfection and sterilization; the preparation of culture media and a thorough study of the pathogenic bacteria of the oral cavity.

CHEMISTRY

Office, 100 Chemistry Building

PROFESSORS McPHERSON AND EVANS, ASSISTANT PROFESSOR DAY, AND DEPARTMENT ASSISTANTS

105. Elementary Chemistry. Four credit hours. First semester. One lecture, one quiz, and six laboratory hours each week. First year, Dentistry. Required of all students who have not presented chemistry as an entrance unit. Mr. Day.

A general course on the chemistry of metals.

106. Elementary Chemistry and Qualitative Analysis. A continuation of Chemistry 105. Four credit hours. Second semester. First year, Dentistry. Mr. Day.

A general course on the chemistry of metals. The laboratory work is a general introductory course in qualitative analysis.

109. General Chemistry. Four credit hours. First semester. One lecture, one quiz, and six laboratory hours each week. First year, Dentistry. Required of all students who have presented chemistry as an entrance unit.

A general course on the chemistry of non-metals. It is more advanced than Chemistry 105.

110. General Chemistry and Qualitative Analysis. A continuation of Chemistry 109. Four credit hours. Second semester. First year, Dentistry.

A general course on the chemistry of metals. The laboratory work is a general introductory course in qualitative analysis.

150. Organic Chemistry. Five credit hours. First semester. Second year, Dentistry. Prerequisite, an acceptable course in general chemistry.

Lectures and laboratory work. A general introductory course in organic chemistry, and a study of alcohols, ethers, alkaloids, etc.

ENGINEERING DRAWING

Office, 204 Brown Hall

PROFESSOR FRENCH, ASSISTANT PROFESSORS MEIKLEJOHN AND WILLIAMS, AND DEPARTMENT ASSISTANTS

101. Elementary Mechanical Drawing. Two credit hours. First semester. Four laboratory hours each week. First year, Dentistry. Mr. French, Mr. Meiklejohn, Mr. Williams and department assistants.

Practice in the use of drawing instruments, elementary projections.

ENGLISH

Office, 103 Physics Building

PROFESSOR DENNEY, ASSISTANT PROFESSOR BECK,
AND DEPARTMENT ASSISTANTS

101. Paragraph Writing: Description and Narration. Two credit hours. First semester. First year, Dentistry.

English 101 will be repeated in the second semester for the benefit of students who fail. The class meets on Saturday at 9 a. m.

English 101 is given also in the Summer Session.

104. Paragraph Writing: Exposition and Argumentation. Two credit hours. Second semester. First year, Dentistry. Prerequisite, English 101. Same hours as English 101.

English 104 is given also in the Summer Session.

105. Descriptive and Narrative Writing. Two credit hours. First semester. Second year, Dentistry. Prerequisite, English 101 and 104. Mr. Beck.

OPERATIVE DENTISTRY

Office, 710 North Park Street

PROFESSORS SEMANS AND COTTRELL, ASSISTANT PROFESSORS
GRAHAM, HEBBLE, AND WILTBERGER, DR. J. W. MEANS,
DR. MARTINDALE, DR. STROSNIDER, DR. BOTTEN-
HORN, DR. MOBBERLY, DR. SNYDER, DR.
STARR, DR. JONES, DR. REIF

109-110. Operative Technic. Two credit hours. The year. One lecture and three laboratory hours each week, the first semester; six laboratory hours each week the second semester. Second year, Dentistry. Dr. Hebble.

The preparation and filling of root canals of extracted teeth, shaping cavities in models in natural size tooth forms, and filling the same with each kind of filling material. Table and operating clinic demonstrations.

118. Orthodontia Principles and Technic. Two credit hours. Second semester. One recitation and three laboratory hours each week. Third year, Dentistry. Dr. Jones.

Free hand soldering, soldering and adjusting combination appliances and making accurate models. Work illustrated by stereopticon charts, models and clinical demonstration.

121. Orthodontia Principles and Practice. Two credit hours. First semester. One recitation and three clinical hours each week. Fourth year, Dentistry. Dr. Jones.

The etiology and classification of malocclusion, physiology of tooth movement, character of tissues involved, methods and appliances for the correction of malposed teeth and correction in relation to harmony of the facial lines.

122. Orthodontia Practice. One credit hour. Second semester. Three clinical hours each week. Fourth year, Dentistry. Dr. Jones.

124. Porcelain Technic. One credit hour. Second semester. A total of eight lectures or recitations and forty laboratory hours. Third year, Dentistry. Dr. Wiltberger.

A study of the composition and grades of porcelain and the methods of using it in all phases of dentistry.

125. Operative Principles and Practice, and Exodontia. Three credit hours. First semester. One recitation and six laboratory and clinical hours each week. Third year, Dentistry. Dr. Semans, Dr. Hebble, Dr. Strosnider, Dr. Snyder, Dr. Reif.

The study of all methods, appliances and materials used in filling teeth; and the study of the proper technic in the extraction of teeth.

126. Operative Principles and Practice, and X-Ray. Three credit hours. Second semester. One recitation and six clinical hours each week. Third year, Dentistry. Dr. Semans, Dr. Hebble, Dr. Strosnider, Dr. Snyder, Dr. Reif.

The study of the conservation of the natural tooth with practical demonstration and tests by use of the X-ray.

127. Operative Principles and Practice. Five credit hours. First semester. One recitation and twelve clinical hours each week. Fourth year, Dentistry. Dr. Semans, Dr. Hebble, Dr. Strosnider, Dr. Snyder, Dr. Mobberly, Dr. Reif.

The study of all modern and advanced methods of restoration of the natural tooth, with careful clinical supervision of each student's work on patients.

128. Operative Dentistry Practice. Six credit hours. Second semester. Sixteen clinical hours each week. Fourth year, Dentistry. Dr. Semans, Dr. Hebble, Dr. Strosnider, Dr. Snyder, Dr. Mobberly, Dr. Reif.

Self assurance in the care and management of patients is thoroughly taught in this course.

131. Dental Medicine. One credit hour. First semester. One recitation each week. Third year, Dentistry. Dr. Graham. A study of medicinal agents used in dentistry.

132. Dental Medicine. Two credit hours. Second semester. One recitation and three clinical hours each week. Third year, Dentistry. Dr. Graham and clinical instructors.

A continuation of Operative Dentistry 131 with clinical demonstrations.

133-134. Dental Medicine. Two credit hours. The year. One recitation and three clinical hours each week. Fourth year, Dentistry. Dr. Graham and clinical instructors.

A more advanced course, and continuous with Operative Dentistry 132.

135. Oral Hygiene. Three credit hours. First semester. One recitation and six clinical hours each week. Third year, Dentistry. Dr. Graham and clinical instructors.

Hygiene of the mouth and teeth. A study of the relation of bacteria to caries of teeth and diseases of the mouth; the practical use of disinfectants, antiseptics and germicides; instrument sterilization and general prophylaxis.

137-138. Oral Surgery. Two credit hours. The year. One recitation and three clinical hours each week. Fourth year, Dentistry. Dr. Means.

The pathologic condition of the face, jaws, oral cavity and related structures, with clinical demonstrations.

139-140. Anesthetics. Two credit hours. The year. One recitation and three clinical hours each week. Fourth year, Dentistry. Dr. Martindale, Dr. Snyder.

A study of the use, administration and dangers of anesthetics as used for all purposes in dentistry.

141-142. Ethics, Economics, History and Jurisprudence. One credit hour. The year. One lecture or quiz each week. Fourth year, Dentistry. Dr. Semans.

Business training, ideals, dental history and standards of professional conduct are taught in this course.

145. Dental Anatomy Technic. Three credit hours. Second semester. One recitation and six laboratory hours each week. First year, Dentistry. Dr. Semans, Dr. Strosnider.

Descriptive human dental anatomy, sketching and sectioning of natural teeth; and natural teeth reproduced by molding and carving in various materials.

PATHOLOGY

Office, 710 North Park Street

PROFESSOR SCOTT, DR. BOTTENHORN AND ASSISTANTS

135. General Pathology. Three credit hours. First semester. One lecture or recitation and six laboratory hours each week. Third year, Dentistry. Dr. Scott, Dr. Bottenhorn.

General pathology, including the etiology of diseases, distribution of nutrition, inflammation and tumors.

144. Dental Pathology. Two credit hours. Second semester. One recitation and three clinical hours each week. Third year, Dentistry. Dr. Bottenhorn.

The study of all pathological manifestations in and about the teeth, with clinical demonstrations; use of the X-ray as a diagnostic medium.

PHYSIOLOGY, PHYSIOLOGICAL CHEMISTRY AND PHARMACOLOGY

Office, 104 Biological Hall

PROFESSOR BROOKS, ASSISTANT PROFESSOR McPEEK,
AND ASSISTANTS

127. Physiology. Three credit hours. First semester. Two lectures or recitations and three laboratory hours each week. Third year, Dentistry. Dr. McPeck.

The physiology of the unicellular structures, muscle and nerve, central nervous system, autonomic system, internal and external senses, blood and heart. Reports of papers by students.

128. Physiology. Three credit hours. Second semester. Two lectures or recitations and three laboratory hours each week. Third year, Dentistry. Prerequisite, Physiology 127. Dr. McPeck.

The physiology of the circulatory and respiratory mechanisms, digestion, excretion, metabolism, endocrinous glands and reproduction.

134. Bio-Chemistry. Two credit hours. Second semester. One recitation and three laboratory hours each week. Second year, Dentistry. Dr. Brooks, Dr. McPeck.

A study of carbohydrates, fats and proteins in their relation to the cell, including a study of digestion, metabolism, animal fluids, enzyme, secretions and excretions, in their normal conditions, with reference to pathologic variations.

PROSTHESIS

Office, 710 North Park Street

PROFESSOR COTTRELL, ASSISTANT PROFESSOR WILTBERGER,
DR. SHUMWAY, DR. MOBBERLY, DR. STARR

101. Prosthetic Dentistry. Four credit hours. First semester. One lecture or recitation and nine laboratory hours each week. First year, Dentistry. Dr. Cottrell, Dr. Shumway.

The foundation principles in restoration of lost teeth by means of plates. Laboratory work correlates with didactic.

102. Prosthetic Dentistry. Five credit hours. Second semester. One lecture or recitation and twelve laboratory hours each week. First year, Dentistry. Prerequisite, Prosthesis 101. Dr. Cottrell, Dr. Shumway.

A continuation of Prosthesis 101.

103. Prosthetic Dentistry. One credit hour. First semester. One recitation or three laboratory hours each week. Second year, Dentistry. Dr. Cottrell, Dr. Shumway.

This work aims to develop an artistic sense in students that they may be thoroughly prepared to restore not only lost organs but lost features, and to rebuild symbols of individuality and character. Clinical demonstrations.

104. Prosthetic Dentistry. Two credit hours. Second semester. One recitation and three laboratory hours each week. Second year, Dentistry. Dr. Cottrell, Dr. Shumway.

105-106. Crown and Bridge Technic. One credit hour. The year. Three laboratory hours each week. Second year, Dentistry. Dr. Wiltberger, Dr. Mobberly.

107. Crown and Bridge Work. Three credit hours. First semester. One lecture or recitation and six laboratory hours each week. Third year, Dentistry. Dr. Wiltberger, Dr. Starr.
Instruction in the foundation principles of lost parts. Clinical demonstrations.

112. Crown and Bridge Principles, Technic and Practice. Three credit hours. Second semester. One recitation and six laboratory and clinical hours each week. Third year, Dentistry. Dr. Wiltberger, Dr. Starr, and clinical instructors.

A continuation of Prosthesis 107. Clinical demonstrations and practice.

115-116. Crown and Bridge Practice. Two credit hours. The year. Six clinical hours each week. Fourth year, Dentistry. Dr. Wiltberger, Dr. Starr, and clinical instructors.

All methods of restoring lost parts by crowns and bridges. Work done by the students in the clinic.

117-118. Prosthetic Dentistry Practice. Two credit hours. The year. Six laboratory and clinical hours each week. Third year, Dentistry. Dr. Cottrell, Dr. Mobberly, Dr. Shumway.

A continuation of Prosthesis 104, with simple cases in practical work in the clinic.

119-120. Prosthetic Dentistry Practice. Two credit hours. The year. Six clinical hours each week. Fourth year, Dentistry. Dr. Cottrell, Dr. Mobberly, Dr. Shumway.

A continuation of Prosthesis 118, with all modern methods of restoration of lost parts. Practical work in the clinic.

132. Dental Metallurgy. One credit hour. First semester. Three laboratory hours each week. Second year, Dentistry. Dr. Starr, Mr. Baker.

Process of extracting and refining metals and their ores, making alloys for plate, solder, crown and bridge work, and the making and tempering of instruments.

ZOOLOGY

Office, 101 Botany and Zoology Building

PROFESSOR OSBURN AND DEPARTMENT ASSISTANTS

101. Elementary Zoology. Three credit hours. First semester. Two lectures or recitations and two laboratory hours each week. First year, Dentistry.

The Ohio State University Bulletin is issued at least twenty times during the year; monthly in June, July, August, and September, and bi-weekly in October, November, December, January, February, March, April, and May.

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THE OHIO STATE UNIVERSITY BULLETIN

VOLUME XXV

DECEMBER 10, 1920

NUMBER 5

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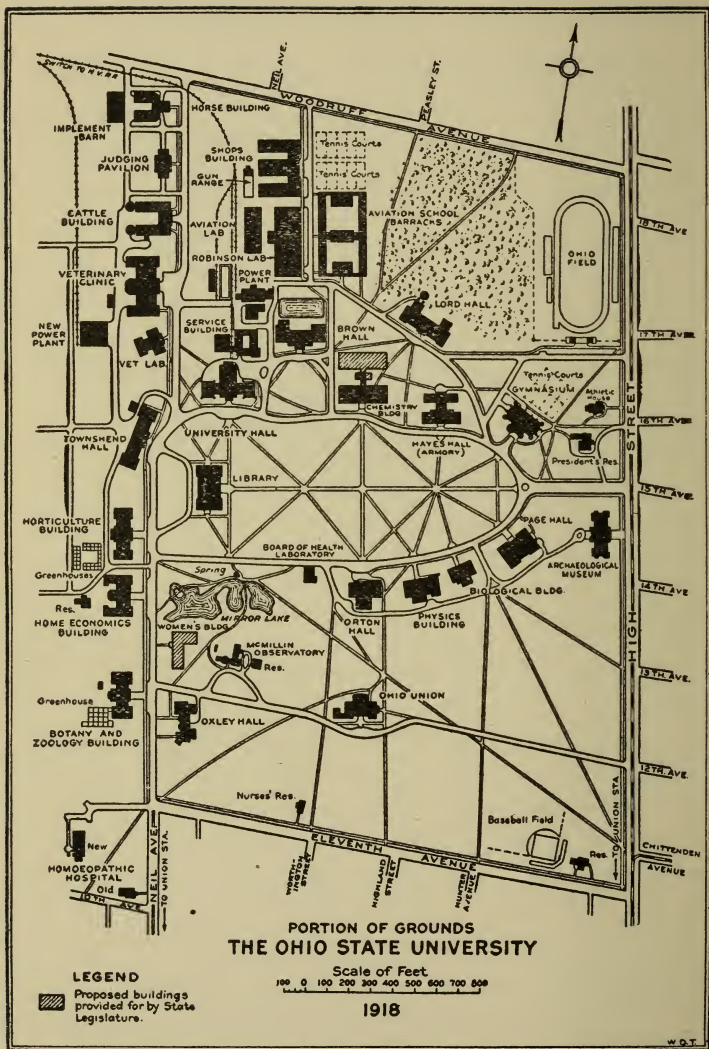
COLLEGE OF DENTISTRY

1921-1922

PUBLISHED BY THE UNIVERSITY AT COLUMBUS

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Authorized July 10, 1918.



UNIVERSITY CALENDAR

1921

- Summer Session, Monday, June 20 to Friday, August 12.
Entrance examinations, Tuesday to Saturday, 8 A. M., June 21 to 25.
Entrance examinations, Tuesday to Saturday, 8 A. M., September 6 to 10.
Physical examinations for all new students, Friday to Friday, September 16 to 23.
Registration Day—First Semester—Tuesday, September 20.
President's Annual Address, Wednesday, September 21, 11 A. M.
Intelligence tests for Freshmen in Engineering College, Thursday and Friday, September 22 and 23, from 10 to 12 A. M.
Intelligence tests for all new students, Saturday, September 24.
Latest date for registration of candidates for a degree at the Commencement in June, 1922, October 1.
Registration Day, Short Courses in Agriculture—First Term—Tuesday, October 18.
Mid-semester reports to the Deans concerning delinquent students, Wednesday, November 9.
Thanksgiving recess begins November 23, 1 P. M., and ends November 29, 8 A. M.
Christmas recess begins Thursday, December 22, 6 P. M.

1922

- Christmas recess ends Tuesday, January 3, 8 A. M.
Registration Day, Short Courses in Agriculture—Second Term—Tuesday, January 3.
Final examinations, Wednesday, January 25, to Thursday, February 2.
Farmers' Week, Monday, January 30 to Friday, February 3.
First semester ends Thursday, February 2, 6 P. M.

SECOND SEMESTER

- Registration Day—Second Semester—Tuesday, February 7.
University Day, Wednesday, February 22.
Close of Second Term, Short Courses in Agriculture, Friday, March 17.
Mid-semester reports to the Deans, Wednesday, April 5.
Easter recess, Thursday noon, April 13 to Tuesday, April 18, 8 A. M.
Competitive Drill—Cadet Regiment—Saturday, May 27.
Memorial Day, Tuesday, May 30.
Final examinations, Wednesday, May 31 to Thursday, June 8.
Commencement, Tuesday, June 13.
Summer Session, Monday, June 19 to Friday, August 11.
Entrance examinations, Tuesday, June 20 to Saturday, June 24, 8 A. M.

CALENDAR FOR 1921

THE FRANKLIN CO. CHL.

THE FRANKLIN CO. CH.

JANUARY.							FEBRUARY.							MARCH.							APRIL.							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
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9	10	11	12	13	14	15	13	14	15	16	17	18	19	13	14	15	16	17	18	19	10	11	12	13	14	15	16	
16	17	18	19	20	21	22	20	21	22	23	24	25	26	20	21	22	23	24	25	26	17	18	19	20	21	22	23	
23	24	25	26	27	28	29	27	28						27	28	29	30	31			24	25	26	27	28	29	30	
30	31																											
MAY.							JUNE.							JULY.							AUGUST.							
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29	30	31					26	27	28	29	30			24	25	26	27	28	29	30	28	29	30	31				
....														31														
SEPTEMBER.							OCTOBER.							NOVEMBER.							DECEMBER.							
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11	12	13	14	15	16	17	9	10	11	12	13	14	15	13	14	15	16	17	18	19	11	12	13	14	15	16	17	
18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26	18	19	20	21	22	23	24	
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....							30	31																				

CALENDAR FOR 1922

THE FRANKLIN CO. CHL.

THE FRANKLIN CO., CHICAGO.

JANUARY.							FEBRUARY.							MARCH.							APRIL.							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
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8	9	10	11	12	13	14	5	6	7	8	9	10	11	5	6	7	8	9	10	11	2	3	4	5	6	7	8	
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22	23	24	25	26	27	28	19	20	21	22	23	24	25	19	20	21	22	23	24	25	16	17	18	19	20	21	22	
29	30	31					26	27	28					26	27	28	29	30	31		23	24	25	26	27	28	29	
....																					30							
MAY.							JUNE.							JULY.							AUGUST.							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
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7	8	9	10	11	12	13	4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12	
14	15	16	17	18	19	20	11	12	13	14	15	16	17	9	10	11	12	13	14	15	13	14	15	16	17	18	19	
21	22	23	24	25	26	27	18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26	
28	29	30	31				25	26	27	28	29	30		23	24	25	26	27	28	29	27	28	29	30	31			
....														30	31													
SEPTEMBER.							OCTOBER.							NOVEMBER.							DECEMBER.							
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3	4	5	6	7	8	9	8	9	10	11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9	
10	11	12	13	14	15	16	15	16	17	18	19	20	21	12	13	14	15	16	17	18	10	11	12	13	14	15	16	
17	18	19	20	21	22	23	22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23	
24	25	26	27	28	29	30	29	30	31					26	27	28	29	30			24	25	26	27	28	29	30	
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THE OHIO STATE UNIVERSITY

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COLLEGE OF DENTISTRY

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Professor of Bacteriology

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Professor of Chemistry

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Professor of Chemistry

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Professor of Prosthetic Dentistry

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Professor of Pathology

RAYMOND C. OSBURN, Ph.D..... 337 W. Ninth Ave.
Professor of Zoology and Entomology

CLAYTON MCPEEK, B.A., M.D..... 710 N. Park St.
Assistant Professor of Physiology

- EDWARD C. BUCK, M.D.....710 N. Park St.
Assistant Professor of Anatomy
- VERA MCCOY MASTERS, B.Sc., M.A.....2172 Indianola Ave.
Assistant Professor of Bacteriology
- ROLAND B. WILTBERGER, D.D.S.....Citizens Bank Building
Assistant Professor of Crown, Bridge and Porcelain
- CLYDE H. HEBBLE, D.D.S.....830 S. High St.
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- WILLIAM C. GRAHAM, D.D.S.....350 E. State St.
Assistant Professor of Dental Medicine
- OWEN E. WILLIAMS.....2094 Tuller St.
Assistant Professor of Engineering Drawing
- CLAYTON S. SMITH, Ph.D., M.D.....Columbus Hotel
*Assistant Professor of Physiological Chemistry
and Pharmacology*
- JOHN W. MEANS, D.D.S., M.D.....715 N. High St.
Instructor in Oral Surgery
- HUGH J. MEANS, B.A., M.D.....322 E. State St.
Instructor in Roentgenology
- HERBERT S. SHUMWAY, D.D.S.....Hartman Building
Instructor in Prosthetic Laboratory
- CHARLES W. STROSNIDER, D.D.S.....Citizens Bank Building
Instructor in Operative Clinic and Assistant in Dental Anatomy
- DICK P. SNYDER, D.D.S.....137 E. State St.
Instructor in Exodontia
- EDWARD W. MARTINDALE, B.A., D.D.S.....Ruggery Building
Instructor in Dental Anesthesia
- IRWIN A. BOTTENHORN, D.D.S., M.D.....15 W. Goodale St.
Instructor in Dental Pathology

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Instructor in Anatomy
- OLLIE O. MOBBERLY, D.D.S.....757½ N. High St.
Superintendent of Dental Laboratories and Summer Clinic
- LOUIS E. REIF, D.D.S.....955½ S. High St.
Demonstrator in Operative Clinic
- EARL G. JONES, D.D.S.....185 E. State St.
Instructor in Orthodontia

THE OHIO STATE UNIVERSITY

The Ohio State University is maintained by appropriations from the State and Federal Governments. It is located in the northern part of the city of Columbus, and is reached by North High Street or Neil Avenue electric cars.

ORGANIZATION

For convenience of administration, the departments of the University are grouped into organizations called colleges. The Ohio State University comprises a graduate school and eleven colleges, each under the administration of a Dean and College Faculty, as follows:

Graduate School	College of Education
College of Agriculture	College of Engineering
College of Arts, Philosophy and Science	College of Homoeopathic Medicine
College of Commerce and Journalism	College of Law
College of Dentistry	College of Medicine
	College of Pharmacy
	College of Veterinary Medicine

SUMMER SESSION

In addition to the above, there is a Summer Session under the supervision of a Director and governing committee for the administration of the regular University Courses offered in the summer.

This bulletin is devoted exclusively to the work of the College of Dentistry for the academic year, 1921-1922.

For Bulletins of the College of Dentistry, or any information in regard to entrance, address the Secretary of the Entrance Board, the Ohio State University, Columbus, Ohio. For information concerning the College, address Dr. Harry M. Semans, Dean, College of Dentistry, North Park Street, Columbus, Ohio.

(NOTE—The University publishes a bulletin descriptive of each college. Copies may be obtained by addressing the Secretary of the Entrance Board, Ohio State University, Columbus, Ohio, and stating the college in which the writer is interested.)

COLLEGE OF DENTISTRY

LOCATION

The College of Dentistry is located on Park Street near Buttles Avenue, four blocks north of the Union Station.

IMPORTANT NOTICE

Beginning with the academic year 1921-1922, satisfactory evidence must be presented that the applicant for entrance has completed at least one year of instruction in an approved college of liberal arts and science, thirty semester hours, after the completion of an approved four year high school course based upon eight years of elementary preparation. The year of college instruction must include English 6 hours, biology 6 hours, and chemistry 6 hours.

Physics must be presented for admission. This may be taken either in the high school or in an arts college.

LABORATORIES AND CLINICAL FACILITIES AT THE PARK STREET BUILDING

To persons who are familiar with the teaching faculty of the College of Dentistry it is well known that the science branches have been taught for several years by specialists—men who devote all their time to teaching and work in their special subjects. A number of the laboratories such as anatomy, physiology, bacteriology and chemistry, are in charge of teachers who give all

their time to the college. The other laboratories are presided over by teachers who are experts in their special lines of work.

The laboratories are located in the Park Street Building.

ANATOMICAL LABORATORY

The anatomical laboratory includes two large rooms with a floor space of more than 3,500 square feet. It is equipped with modern tables, appliances for dissection and anatomical specimens, such as cross sections, skeletons and prepared organs. There are also ample facilities for the preparation and preservation of anatomical material.

PATHOLOGICAL AND HISTOLOGICAL LABORATORIES

These occupy a large, well-lighted room with tables, lockers, and other necessary equipment for microscopical work. The pathologic specimens are obtained from the hospital clinics and from postmortems. There are adjacent rooms for preparing and storing specimens, private offices for the teaching staff, and a working library and recitation room in which is installed a modern projectoscope.

ADVANCED BACTERIOLOGICAL LABORATORY

This laboratory is located in a spacious, well-lighted room equipped with tables, lockers, and other apparatus necessary for teaching. There are three smaller rooms for the preparation of cultures and for animals.

Facilities are provided for conducting technical laboratory examinations such as the Wasserman, Widal and other tests.

BIO-CHEMICAL LABORATORY

This laboratory is located on the first floor, and is equipped with tables, lockers, and scientific apparatus. Electric fans are used to carry off the gases formed in demonstration work.

PHYSIOLOGICAL LABORATORY

This laboratory occupies a whole floor of the main laboratory building. It is equipped with all the necessary appliances for individual work and for class demonstrations. There are thirty-two tables provided with lockers and complete sets of apparatus.

X-RAY LABORATORIES

A large laboratory has been installed on the first floor of the college building, easily accessible to the hospital and dispensaries. It is equipped with the most up-to-date apparatus for diagnosis of mouth lesions and bone diseases and for electrotherapeutic treatment. Apparatus is provided for exhibition of negatives in clinical conferences.

A small laboratory has been installed in a room immediately adjacent to the dental clinic to be used especially for technical and clinical training.

DENTAL LABORATORIES

Throughout the entire course of study the student devotes to practical dentistry three or more hours each day in either laboratories or clinics.

In these laboratories instruction is given relative to the construction of artificial dentures, crown and bridge work, operative and orthodontia technics. In the clinic ample opportunity is afforded for the application of the principles taught in the laboratories.

The college is provided with modern equipment throughout and the rooms are exceptionally well lighted, the buildings having been constructed with special reference to this effect, so essential for dental work.

OPERATIVE CLINIC

The dental operating rooms are commodious, designed exclusively for the purpose, containing 4,600 square feet of floor space, and 250 feet of window frontage, provided with the necessary conveniences for patients, and equipped with modern dental chairs and appliances.

The operative clinical department is divided into three well equipped rooms for practical work. The operating room is equipped with forty-four modern operating chairs, the prosthetic room with ten chairs and the extracting room with two chairs. These three rooms are equipped with all modern appliances which will tend to render the dental operation aseptic.

The close connection of the college with the several hospitals and the medical dispensary, offers opportunities to dental stu-

dents for witnessing operations for cleft-palate, hare-lip, syphilitic lesions and other deformities, by the regular staff and also to do practical dental clinical work.

Special attention is called to the hygienic condition of the college and surroundings—good ventilation, pure air and an abundance of daylight in every room.

Students are required to be neat in their personal appearance and to wear white washable gowns while on duty in the operating room.

Students must promptly fulfill appointments made with patients in the Dental Clinic.

The practice of dentistry by students during the term, outside the college building, is positively prohibited by the State law.

LIBRARY FACILITIES

The College maintains a reading room where the leading dental magazines may be found on file. Other dental literature in departmental libraries will also be at the student's disposal.

Literature of general or special interest can be obtained at the Ohio State University Library.

GENERAL INFORMATION

FEES AND EXPENSES

GENERAL CHARGES

All University fees must be paid at the opening of each semester as a condition of admission to classes. Registration is not complete until all fees have been paid. No student will have any privileges in the classes or laboratories until all fees and deposits are paid.

Since all fees are due and payable as a part of the student's registration, no person should come to the University for registration without money sufficient to cover all of his fees and deposits.

Matriculation Fee. Every student upon his first admission to the University is required to pay a matriculation fee of \$10.00. This fee is paid but once, and is in addition to other University fees and entitles the student to the privileges of membership in the University. (Effective June 1, 1920.)

Non-Resident Fee. Every undergraduate student who is not a legal resident of the State of Ohio is required to pay a non-resident fee of \$25.00 each semester of his residence in the University, in addition to other University fees. The burden of registering under proper residence is placed upon the student. If there is any possible question of his right to legal residence, the matter should be brought to the attention of the Registrar and passed upon, previous to registration or the payment of fees. Any student who registers improperly under this rule shall be required to pay not only the non-resident fee but shall be assessed a penalty of \$10.00. (Effective June 1, 1920.)

No person shall be considered eligible to register in the University as a resident of the State of Ohio unless he has resided in the State twelve months next preceding the date of his proposed enrollment, and no person shall be considered to have gained a residence in this State for the purpose of registering in the University while he is a student in the University.

The residence of minors shall follow that of the legal guardian.

The residence of wives shall follow that of husbands.

Aliens who have taken out first citizenship papers and who have been residents of Ohio for twelve months next preceding the date of their enrollment in the University, shall be regarded as eligible for registration as residents of Ohio.

The tuition fees are as follows:

First Year

Tuition.....\$50.00 each semester

Laboratory Deposit. Students are required to pay for all materials consumed in laboratory work. To meet the cost of these materials a deposit ranging from two to ten dollars for each course requiring such supplies is made at the Bursar's office before the student can enter the laboratory. All laboratory supplies are sold at the Laboratory Supply Store, Chemistry Hall, to students at cost to the University, and charged against the deposits. Any unused part of the deposits is refunded at the end of the semester.

Students should present their class cards to the Bursar when they pay laboratory deposits.

Instructors shall not permit students to engage in laboratory work unless first shown a receipt from the Bursar for deposits paid.

Second, Third and Fourth Years

The tuition fee is \$150.00, including laboratory deposit.

The student must pay \$75.00 at the beginning of each semester, and will not be enrolled in classes until this fee is paid. No postponement or reduction of fees is made. No notes are accepted under any circumstances.

There is also a diploma fee of \$5.00 for all fourth year students.

The Ohio Union. A fee of one dollar a semester is paid by all male students at registration. This entitles the student to all the privileges of the Union consistent with the Constitution and House Rules governing it.

Return of Fees. Fees are not returnable except in case of sickness and causes entirely beyond the control of the student. No portion of the fees shall be returned for voluntary withdrawal of the student or enforced withdrawal thirty days after registration. Students withdrawing under discipline forfeit all right to the return of any portion of the fees. In no case shall more than one-half the fee be refunded.

Breakage and Incidental Charges. Waste of material or destruction of apparatus in the laboratories or the destruction of

college property in general, will be charged against the individual student, section or class.

Locker Fees. The gymnasium is free to all students, but those desiring to use a locker are charged a fee of two dollars a semester, which includes the rental of towels.

Expense of Books, Tools and Instruments. Students are required to provide themselves with the necessary textbooks, operating instruments and laboratory tools before entering upon their several duties. The minimum cost of these is about \$30.00 for books, and \$75.00 for tools in the Freshman year; \$25.00 for books and \$175.00 for instruments in the Sophomore year, including dental engine. Books in the Junior year cost \$20.00.

Attention is called to the rule that all instruments found on the required list must bear the brand of accredited manufacturers. Instruments otherwise purchased cannot be accepted.

The required list of instruments used in all courses is revised every year and the same will be given to each student at the college office.

Materials that are used in the dental technic course are bought by the student.

The latest editions of textbooks on all subjects taught in the different departments can be purchased at the college. This is for the convenience of the students. Do not purchase textbooks until the teachers have been consulted.

Rooms and Board. Good rooms and board vary in cost with the location and environments. Comfortable living can be had for \$6.50 to \$8.00 a week. A list of boarding houses, within easy access of the College at which good board and room can be secured at reasonable prices, may be obtained at the office.

Estimate of Expenses. In order to furnish information, we have listed below an estimate of the average payments required by the University for the first year of the College of Dentistry and have estimated the cost for room and boarding at a safe price. These two items are sometimes reduced slightly where two students occupy the same room and where boarding clubs are economically managed.

Matriculation fee.....	\$ 10 00
Tuition fee, including laboratory deposit.....	150 00
Ohio Union	2 00
Books	30 00
Tools	175 00
Board—36 weeks at \$8.00 a week.....	288 00
Room rent, at \$15.00 a month.....	135 00
General expenses	100 00
Total	\$890 00

The item of general expenses in the above estimate is always subject to the personal habits of the individual, and varies according to the degree of economy exercised.

Opportunities for Self-Help. There are in the city many opportunities to obtain work, by which the student may add to his resources. During the summer many students secure remunerative employment in the city.

Student Assistantships. A limited number of student assistantships in the several laboratories are available for men who have had laboratory training and who have enough advanced credits to give them time to do the work required. These positions will be assigned only to men who give evidence of good training in the subject in which the assistantship lies and who can present convincing recommendations from former instructors. The compensation will depend upon the amount of time which the assistant is able to give. These assistants are not relieved from the payment of tuition and other fees.

COMBINATION COURSES

Combination Courses of Science-Dentistry and Arts-Dentistry are open to students of accredited colleges and universities. Each college must determine, however, the time of residence required before matriculating in the College of Dentistry and the required residence in the Dental College before granting the academic degree.

ADMISSION

The College is open on equal terms to both sexes.

THE ENTRANCE BOARD

Admission of students into the College of Dentistry is in charge of the University Entrance Board which determines the credits that shall be issued on all entrance certificates and furnishes all desired information to applicants. Correspondence relative to admission should be addressed to the Secretary of the Entrance Board, the Ohio State University, Columbus, Ohio.

REQUIREMENTS FOR ADMISSION

An applicant for admission to the College of Dentistry and for the degree of Doctor of Dental Surgery must be a graduate of a high school of the first grade, a normal school or an accredited preparatory school and receive credit for fifteen entrance units, and have completed at least one year of instruction, thirty semester hours, in an approved college of liberal arts and science. The year of college instruction must include at least English 6 hours, biology 6 hours, and chemistry 6 hours. Physics must be presented for admission. This may be taken either in the high school or in an arts college.

For admission by certificate see the Bulletin of General Information.

ADVANCED STANDING AND OTHER INFORMATION

CREDIT FOR WORK DONE IN OTHER DENTAL COLLEGES

Students from accredited Dental Colleges may be admitted to advanced standing under the following rules:

1. They must present satisfactory evidence that they have met the entrance requirements.
2. They must present credentials from the proper officers of the dental college attended, showing that they were registered dental students and in residence for the time for which credit is sought, and that they have paid all financial obligations.
3. They must present official credentials of having completed a course of the same scope and extent as the course for which they seek credit. These credentials must be accompanied by a certificate from the Dean or Corresponding Officer, supporting the facts under seal of the college.

COLLEGE OF DENTISTRY

CURRICULUM

Based on one year of pre-dental collegiate work.

FIRST YEAR

FIRST SEMESTER		SECOND SEMESTER	
Prosthesis	(101) 4	Prosthesis	(102) 4
Prosthetic Dentistry		Prosthetic Dentistry	
Engineering Drawing.....	(101) 2	Operative Dentistry.....	(145) 3
Elementary Mechanical		Dental Anatomy	
Anatomy	(125) 4	Anatomy	(126) 4
Human Anatomy		Human Anatomy	
Chemistry	(150) 5	Anatomy	(131) 2
Organic Chemistry		Applied Anatomy	
		Prosthesis	(132) 2
		Dental Metallurgy	

SECOND YEAR

Anatomy	(139) 3	Operative Dentistry.....	(110) 2
Histology		Operative Technic	
Operative Dentistry.....	(109) 3	Physiology	(128) 3
Operative Technic		Prosthesis	(104) 2
Physiology	(127) 3	Prosthetic Dentistry	
Prosthesis	(103) 4	Prosthesis	(106) 2
Prosthetic Dentistry		Crown and Bridge Technic	
Prosthesis	(105) 3	Physiology	(134) 2
Crown and Bridge Technic		Bio-Chemistry	
Anatomy	(140) 4	Bacteriology	(150) 4
Histology		Dental Bacteriology	

THIRD YEAR

Operative Dentistry (131)	1	Operative Dentistry..... (132)	2
Dental Medicine		Dental Medicine	
Operative Dentistry (135)	3	Operative Dentistry (124)	1
Oral Hygiene		Porcelain Technic	
Operative Dentistry (125)	5	Operative Dentistry..... (126)	5
Operative Principles, Practice and Exodontia		Operative Principles, Practice and X-Ray	
Pathology (135)	3	Pathology (144)	2
General Pathology		Dental Pathology	
Prosthesis (107)	2	Prosthesis (112)	2
Crown and Bridge Work		Crown and Bridge Work	
Prosthesis (117)	3	Prosthesis (118)	3
Prosthetic Dentistry Practice		Prosthetic Dentistry Practice	
		Operative Dentistry (118)	2
		Orthodontia Technic	

FOURTH YEAR

Operative Dentistry (139)	2	Operative Dentistry (140)	2
Anesthetics		Anesthetics	
Operative Dentistry (141)	1	Operative Dentistry (142)	1
Ethics, Economics, History and Jurisprudence		Ethics, Economics, History and Jurisprudence	
Operative Dentistry (133)	2	Operative Dentistry (134)	2
Dental Medicine		Dental Medicine	
Operative Dentistry (137)	2	Operative Dentistry (138)	2
Oral Surgery		Oral Surgery	
Operative Dentistry (121)	2	Operative Dentistry (122)	2
Orthodontia Principles and Practice		Orthodontia Practice	
Operative Dentistry (127)	4	Prosthesis (116)	2
Operative Principles and Practice		Crown and Bridge Practice	
Prosthesis (115)	2	Prosthesis (120)	2
Crown and Bridge Practice		Prosthetic Dentistry Practice	
Prosthesis (119)	2	Operative Dentistry (128)	4
Prosthetic Dentistry Practice		Operative Dentistry Practice	

REQUIREMENTS FOR GRADUATION

At the close of the Senior year, a student who has completed the curriculum of this college will receive the degree of Doctor of Dental Surgery, on the following conditions:

1. He must be twenty-one years of age, and of good moral character, which includes good conduct in college.

2. He must have obtained satisfactory standing in all the branches of the curriculum.

3. He must have attended four full years, the last of which is taken in this college.

Graduates in dentistry of other institutions are required to attend one full year and comply with all the regulations of the Senior year in order to receive the degree of Doctor of Dental Surgery from this college.

4. He must have attended at least 85 per cent of the scheduled appointments.

5. He must have discharged all his financial obligations to this college, and to any other dental college which he may have attended.

6. He must be present at the time and place scheduled by the Dean for final examinations, and his absence from an examination in a given subject will indicate failure in that subject, and will be entered as such against him.

7. If he fails to graduate he may, at the discretion of the Executive Committee, repeat the next session and shall take such subjects as the Dean may direct.

ATTENDANCE

In any course the minimum of attendance for which credit is allowed is 85 per cent of the scheduled hours. The margin of 15 per cent is allowed to provide against serious illness or other unavoidable absence, and must never be approached except under such circumstances. Regular attendance upon all scheduled work is required, and the Executive Committee is authorized to place on probation or recommend for dismissal any student who vio-

lates this rule without good cause. Absences just preceding or following vacations are subject to especially rigid investigation.

The diplomas of the Dental College are recognized by all State Boards of Dental Examiners.

CONDITIONS AND FAILURES

A student who has attended less than 85 per cent of the hours scheduled for any subject is not eligible for examination and shall receive no credit.

A grade of 60 per cent and less than 75 per cent in any subject means a condition. A grade below 60 per cent means a failure and the subject must be repeated in class.

Value of grades: P (pass) 75-85; A (average) 85-90; G (good) 90-95; M (merit) 95-100.

A condition in Anatomy can be removed only in the Anatomical Laboratory, and the student must pay \$6.50 for each dissection required.

A condition in a laboratory subject can be removed only by an oral or written examination and a practical test in the laboratory, for which the student must pay the cost of material.

When a student fails in an examination to remove a condition, he must repeat the subject in class.

When a student fails after repeating a course, he shall have no further privilege of instruction or examination in this college except by special vote of the Executive Committee.

DEPARTMENTS OF INSTRUCTION

ANATOMY

Office, 105 Biological Building

PROFESSOR LANDACRE, ASSISTANT PROFESSOR BUCK, MR.
KNOUFF, MR. BAKER, AND ASSISTANTS

125. Human Anatomy. Four credit hours. First semester. Two recitations or lectures and six laboratory hours each week. First year, Dentistry. Dr. Buck, Mr. Baker, and laboratory assistants.

Osteology, arthrology, syndesmology and myology, exclusive of the lower portions of the body.

126. Human Anatomy. Four credit hours. Second semester. Two recitations or lectures and six laboratory hours each week. First year, Dentistry. Dr. Buck, Mr. Baker, and laboratory assistants.

Myology, angiology, splanchnology and peripheral nervous system, exclusive of the lower portions of the body.

131. Applied Anatomy. Two credit hours. Second semester. One recitation and three laboratory hours each week. First year, Dentistry. Dr. Buck, Mr. Baker.

A review of Anatomy 125 with special reference to the application of anatomy to dental surgery, in addition to the anatomy of the central nervous system.

139. Histology. Three credit hours. First semester. Two recitations or lectures and three laboratory hours each week. Second year, Dentistry. Mr. Baker, Mr. Knouff.

The histology of the tissues, the histology of the organs, with special emphasis laid upon the head and neck regions.

140. Histology. Four credit hours. Second semester. Two recitations or lectures and six laboratory hours each week. Second year, Dentistry. Mr. Baker, Mr. Knouff.

The histology of the tissues, the histology of the organs, with special emphasis laid upon the head and neck regions.

BACTERIOLOGY

Office, 202 Veterinary Laboratory

PROFESSOR MORREY, ASSISTANT PROFESSOR MASTERS, AND
DEPARTMENT ASSISTANTS

150. **Dental Bacteriology.** Four credit hours. Second semester. Two lectures or recitations and six laboratory hours each week. Second year, Dentistry. Dr. Morrey, Mrs. Masters.

Disinfection and sterilization; the preparation of culture media and a thorough study of the pathogenic bacteria of the oral cavity.

CHEMISTRY

Office, 100 Chemistry Building

PROFESSORS McPHERSON AND EVANS, AND DEPARTMENT
ASSISTANTS

150. **Organic Chemistry.** Five credit hours. First semester. Three lectures or quizzes and six laboratory hours each week. First year, Dentistry. Prerequisite, an acceptable course in general chemistry.

Lectures and laboratory work. A general introductory course in organic chemistry, and a study of alcohols, ethers, alkaloids, etc.

ENGINEERING DRAWING

Office, 204 Brown Hall

PROFESSORS FRENCH AND MEIKLEJOHN, ASSISTANT PROFESSOR
WILLIAMS, AND DEPARTMENT ASSISTANTS

101. **Elementary Mechanical Drawing.** Two credit hours. First semester. Four laboratory hours each week. First year, Dentistry. Mr. French, Mr. Meiklejohn, Mr. Williams and department assistants.

Practice in the use of drawing instruments, elementary projections.

OPERATIVE DENTISTRY

Office, 710 North Park Street

PROFESSORS SEMANS AND COTTRELL, ASSISTANT PROFESSORS
GRAHAM, HEBBLE, AND WILTBERGER, DR. J. W. MEANS,
DR. MARTINDALE, DR. STROSNIDER, DR. BOTTEN-
HORN, DR. MOBBERLY, DR. SNYDER, DR.
STARR, DR. JONES, DR. REIF

109-110. Operative Technic. Three credit hours, first semester; two credit hours, second semester. One lecture and six laboratory hours each week, the first semester; six laboratory hours each week, the second semester. Second year, Dentistry. Dr. Semans, Dr. Hebble, Dr. Strosnider.

The preparation and filling of root canals of extracted teeth, shaping cavities in models in natural size tooth forms, and filling the same with each kind of filling material. Table and operating clinic demonstrations.

118. Orthodontia Principles and Technic. Two credit hours. Second semester. One recitation and three laboratory hours each week. Third year, Dentistry. Dr. Jones.

Free hand soldering, soldering and adjusting combination appliances and making accurate models. Work illustrated by stereopticon charts, models and clinical demonstrations.

121. Orthodontia Principles and Practice. Two credit hours. First semester. One recitation and three clinical hours each week. Fourth year, Dentistry. Dr. Jones.

The etiology and classification of malocclusion, physiology of tooth movement, character of tissues involved, methods and appliances for the correction of malposed teeth and correction in relation to harmony of the facial lines.

122. Orthodontia Practice. Two credit hours.. Second semester. One recitation and three clinical hours each week. Fourth year, Dentistry. Dr. Jones.

124. Porcelain Technic. One credit hour. Second semester. A total of eight lectures or recitations and forty laboratory hours. Third year, Dentistry. Dr. Wiltberger.

A study of the composition and grades of porcelain and the methods of using it in all phases of dentistry.

125. Operative Principles and Practice, and Exodontia. Five credit hours. First semester. Two recitations and nine laboratory and clinical hours each week. Third year, Dentistry. Dr. Semans, Dr. Hebble, Dr. Strosnider, Dr. Snyder, Dr. Reif.

The study of all methods, appliances and materials used in filling teeth; and the study of the proper technic in the extraction of teeth.

126. Operative Principles and Practice, and X-Ray. Five credit hours. Second semester. Two recitations and nine clinical hours each week. Third year, Dentistry. Dr. Semans, Dr. Hebble, Dr. Strosnider, Dr. Snyder, Dr. Reif.

The study of the conservation of the natural tooth with practical demonstrations and tests by use of the X-Ray.

127. Operative Principles and Practice. Four credit hours. First semester. One recitation and nine clinical hours each week. Fourth year, Dentistry. Dr. Semans, Dr. Hebble, Dr. Strosnider, Dr. Snyder, Dr. Reif.

The study of all modern and advanced methods of restoration of the natural tooth, with careful clinical supervision of each student's work on patients.

128. Operative Dentistry Practice. Four credit hours. Second semester. One recitation and nine clinical hours each week. Fourth year, Dentistry. Dr. Semans, Dr. Hebble, Dr. Strosnider, Dr. Snyder, Dr. Reif.

Self assurance in the care and management of patients is thoroughly taught in this course.

131. Dental Medicine. One credit hour. First semester. One recitation each week. Third year, Dentistry. Dr. Graham.
A study of medicinal agents used in dentistry.

132. Dental Medicine. Two credit hours. Second semester. One recitation and three clinical hours each week. Third year, Dentistry. Dr. Graham and clinical instructors.

A continuation of Operative Dentistry 131 with clinical demonstrations.

133-134. Dental Medicine. Two credit hours. The year. One recitation and three clinical hours each week. Fourth year, Dentistry. Dr. Graham and clinical instructors.

A more advanced course, and continuous with Operative Dentistry 132.

135. Oral Hygiene. Three credit hours. First semester. One recitation and six clinical hours each week. Third year, Dentistry. Dr. Graham and clinical instructors.

Hygiene of the mouth and teeth. A study of the relation of bacteria to caries of teeth and diseases of the mouth; the practical use of disinfectants, antiseptics and germicides; instrument sterilization and general prophylaxis.

137-138. Oral Surgery. Two credit hours. The year. One recitation and three clinical hours each week. Fourth year, Dentistry. Dr. Means, Dr. Martindale, Dr. Snyder.

The pathologic condition of the face, jaws, oral cavity and related structures, with clinical demonstrations.

139-140. Anesthetics. Two credit hours. The year. One recitation and three clinical hours each week. Fourth year, Dentistry. Dr. Martindale, Dr. Snyder.

A study of the use, administration and dangers of anesthetics as used for all purposes in dentistry.

141-142. Ethics, Economics, History and Jurisprudence. One credit hour. The year. One lecture or quiz each week. Fourth year, Dentistry. Dr. Semans.

Business training, ideals, dental history and standards of professional conduct are taught in this course.

145. Dental Anatomy Technic. Three credit hours. Second semester. One recitation and six laboratory hours each week. First year, Dentistry. Dr. Semans, Dr. Strosnider.

Descriptive human dental anatomy, sketching and sectioning of natural teeth; and natural teeth reproduced by molding and carving in various materials.

PATHOLOGY

Office, 710 North Park Street

PROFESSOR SCOTT, DR. BOTTENHORN, DR. SNYDER, AND ASSISTANTS

135. General Pathology. Three credit hours. First semester. One lecture or recitation and six laboratory hours each week. Third year, Dentistry. Dr. Scott, Dr. Bottenhorn.

General pathology, including the etiology of diseases, distribution of nutrition, inflammation and tumors.

144. Dental Pathology. Two credit hours. Second semester. One recitation and three clinical hours each week. Third year, Dentistry. Dr. Bottenhorn, Dr. Snyder.

The study of all pathological manifestations in and about the teeth, with clinical demonstrations; use of the X-Ray as a diagnostic medium.

**PHYSIOLOGY, PHYSIOLOGICAL CHEMISTRY
AND PHARMACOLOGY**

Office, 710 North Park Street

PROFESSOR BLEILE, ASSISTANT PROFESSORS SEYMOUR, SMITH,
AND McPEEK, AND ASSISTANTS

127. Physiology. Three credit hours. First semester. Two lectures or recitations and three laboratory hours each week. Second year, Dentistry. Dr. Seymour, Dr. McPeek.

The physiology of the unicellular structures, muscle and nerve, central nervous system, autonomic system, internal and external senses, blood and heart. Reports of papers by students.

128. Physiology. Three credit hours. Second semester. Two lectures or recitations and three laboratory hours each week. Second year, Dentistry. Prerequisite, Physiology 127. Dr. Seymour, Dr. McPeek.

The physiology of the circulatory and respiratory mechanisms, digestion, excretion, metabolism, endocrinous glands and reproduction.

134. **Bio-Chemistry.** Two credit hours. Second semester. One recitation and three laboratory hours each week. Second year, Dentistry. Dr. McPeck, Dr. Smith.

A study of carbohydrates, fats and proteins in their relation to the cell, including a study of digestion, metabolism, animal fluids, enzyme, secretions and excretions, in their normal conditions, with reference to pathologic variations.

PROSTHESIS

Office, 710 North Park Street

PROFESSOR COTTRELL, ASSISTANT PROFESSOR WILTBERGER,
DR. SHUMWAY, DR. MOBBERLY, DR. STARR

101. **Prosthetic Dentistry.** Four credit hours. First semester. One lecture or recitation and nine laboratory hours each week. First year, Dentistry. Dr. Cottrell, Dr. Shumway.

The foundation principles in restoration of lost teeth by means of plates. Laboratory work correlates with didactic.

102. **Prosthetic Dentistry.** Four credit hours. Second semester. One lecture or recitation and nine laboratory hours each week. First year, Dentistry. Prerequisite, Prosthesis 101. Dr. Cottrell, Dr. Shumway.

A continuation of Prosthesis 101.

103. **Prosthetic Dentistry.** Four credit hours. First semester. One recitation and nine laboratory hours each week. Second year, Dentistry. Dr. Cottrell, Dr. Shumway.

This work aims to develop an artistic sense in students that they may be thoroughly prepared to restore not only lost organs but lost features, and to rebuild symbols of individuality and character. Clinical demonstrations.

104. **Prosthetic Dentistry.** Two credit hours. Second semester. One recitation and three laboratory hours each week. Second year, Dentistry. Dr. Cottrell, Dr. Shumway.

105. **Crown and Bridge Technic.** Three credit hours. First semester. One lecture and six laboratory hours each week. Second year, Dentistry. Dr. Wiltberger, Dr. Starr.

106. **Crown and Bridge Technic.** Two credit hours. Second semester. One lecture and three laboratory hours each week. Second year, Dentistry. Dr. Wiltberger, Dr. Starr.

107. **Crown and Bridge Work.** Two credit hours. First semester. One lecture or recitation and three laboratory hours each week. Third year, Dentistry. Dr. Wiltberger, Dr. Starr.

Instruction in the foundation principles of lost parts. Clinical demonstrations.

112. **Crown and Bridge Principles, Technic and Practice.** Two credit hours. Second semester. Six laboratory and clinical hours each week. Third year, Dentistry. Dr. Wiltberger, Dr. Starr, and clinical instructors.

A continuation of Prosthesis 107. Clinical demonstrations and practice.

115-116. **Crown and Bridge Practice.** Two credit hours. The year. Six clinical hours each week. Fourth year, Dentistry. Dr. Wiltberger, Dr. Starr, and clinical instructors.

All methods of restoring lost parts by crowns and bridges. Work done by the students in the clinic.

117-118. **Prosthetic Dentistry Practice.** Three credit hours. The year. One recitation and six laboratory and clinical hours each week. Third year, Dentistry. Dr. Cottrell, Dr. Mobberly, Dr. Shumway.

A continuation of Prosthesis 104, with simple cases in practical work in the clinic.

119-120. **Prosthetic Dentistry Practice.** Two credit hours. The year. Six clinical hours each week. Fourth year, Dentistry. Dr. Cottrell, Dr. Mobberly, Dr. Shumway.

A continuation of Prosthesis 118, with all modern methods of restoration of lost parts. Practical work in the clinic.

132. **Dental Metallurgy.** Two credit hours. Second semester. One lecture and two laboratory hours each week. First year, Dentistry. Dr. Starr.

Process of extracting and refining metals and their ores, making alloys for plate, solder, crown and bridge work, and the making and tempering of instruments.

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